

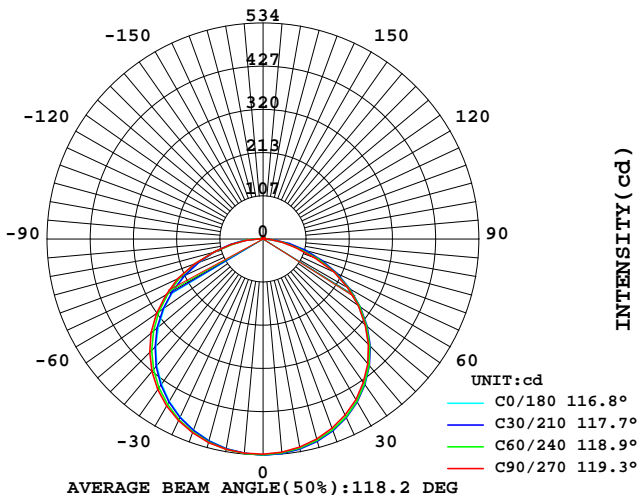
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: KVS-RP20240120-2

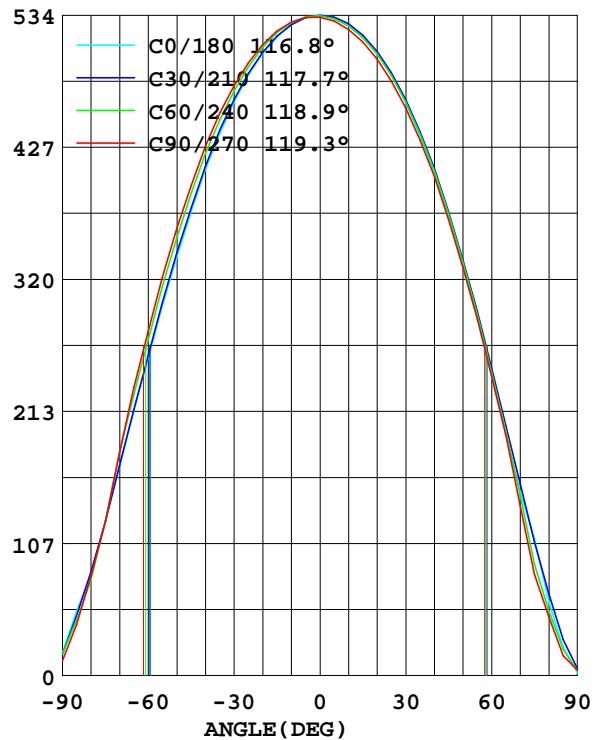
MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

DATA OF LAMP		Imax(cd)	533.6	S/MH(C0/180)	1.29
MODEL	RGB CCT 5050	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.33
NOMINAL POWER(W)	24	TOTAL FLUX(lm)	1653.8	Voltage(V)	24.00
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	67.5	Current(A)	1.020
NOMINAL FLUX(lm)	1653.0	η up(%)	1.9	Power(W)	24.50
LAMPS QUANTITY	1	η down(%)	98.1	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	1599.3	EEI	0.209

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



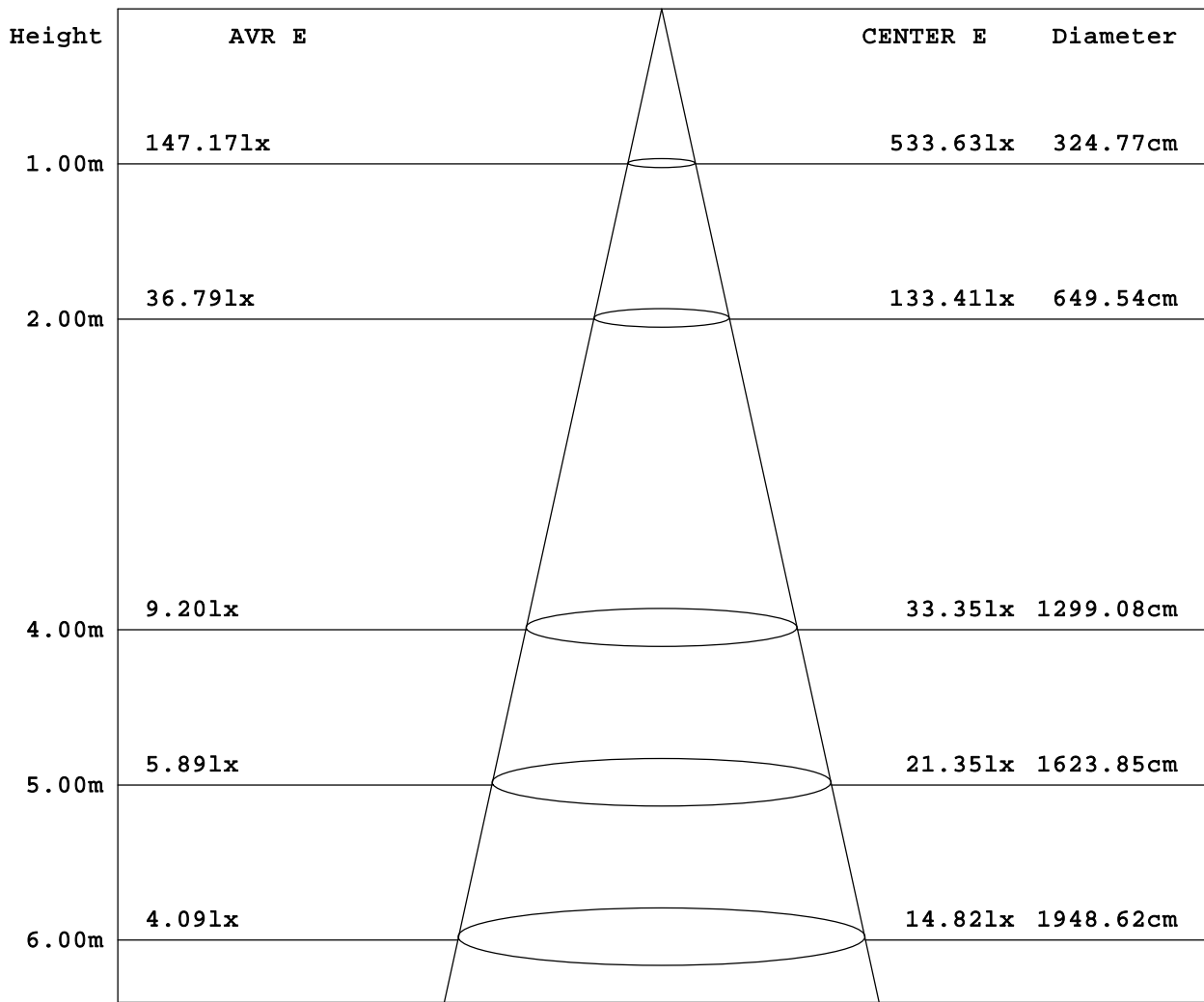
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

AVERAGE AND CENTER E Figure

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01



Angle:116.7deg

Test System:HOP00 HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

ZONAL FLUX DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	525.8	526.8	528.0	529.8	526.5	525.8	522.1	518.6	0- 10	50.48	50.48
20.0	502.7	505.5	509.6	513.5	503.3	503.2	497.9	490.9	10- 20	145.8	196.3
30.0	463.6	468.9	476.6	481.6	463.1	464.5	458.6	447.7	20- 30	224.3	420.6
40.0	408.7	416.4	427.3	432.7	405.1	408.6	403.0	388.3	30- 40	275.5	696.2
50.0	338.1	347.6	361.2	366.1	329.7	334.7	329.7	312.8	40- 50	291.1	987.4
60.0	256.8	265.2	278.3	283.6	242.7	247.3	242.3	226.4	50- 60	267.4	1255
70.0	169.2	175.1	180.0	191.2	148.2	150.0	137.0	132.7	60- 70	206.9	1462
80.0	81.47	80.76	80.57	88.44	60.03	59.45	47.61	50.81	70- 80	119.4	1581
90.0	18.81	17.31	11.90	19.39	2.048	4.576	4.160	3.488	80- 90	40.93	1622
100.0	3.840	3.168	2.368	2.944	2.688	3.104	3.520	3.264	90-100	5.439	1628
110.0	4.288	3.744	3.200	3.488	3.392	3.744	4.032	3.936	100-110	3.607	1631
120.0	4.928	4.448	3.968	4.192	4.224	4.416	4.736	4.672	110-120	4.043	1635
130.0	5.632	5.248	4.864	4.928	5.056	5.184	5.440	5.472	120-130	4.334	1640
140.0	6.272	5.984	5.696	5.696	5.760	5.920	6.144	6.144	130-140	4.326	1644
150.0	6.848	6.624	6.336	6.368	6.400	6.528	6.720	6.720	140-150	3.925	1648
160.0	7.360	7.072	6.848	6.848	6.912	7.008	7.168	7.136	150-160	3.143	1651
170.0	7.680	7.392	7.360	7.296	7.360	7.360	7.552	7.424	160-170	2.044	1653
180.0	7.680	7.520	7.616	7.488	7.680	7.552	7.680	7.488	170-180	0.714	1654
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

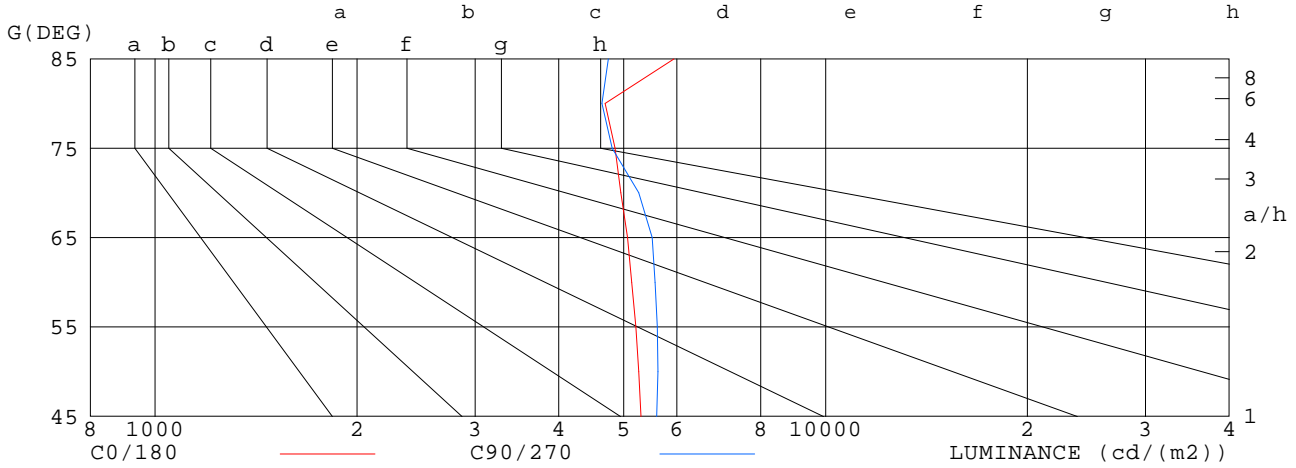
LUMINANCE LIMITATION CURVES

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	5941	4744
80	4692	4640
75	4852	4807
70	4949	5264
65	5063	5512
60	5137	5568
55	5214	5610
50	5261	5621
45	5306	5600

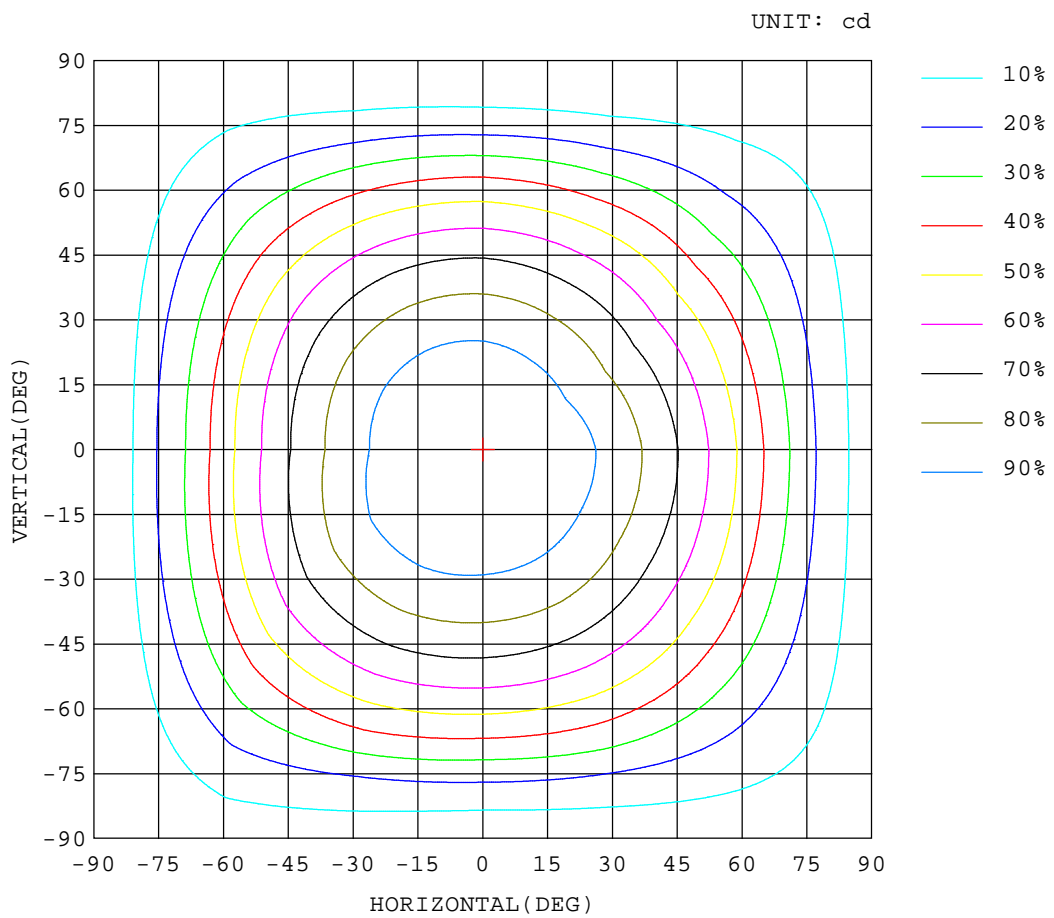
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

ISOCANDELA DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01



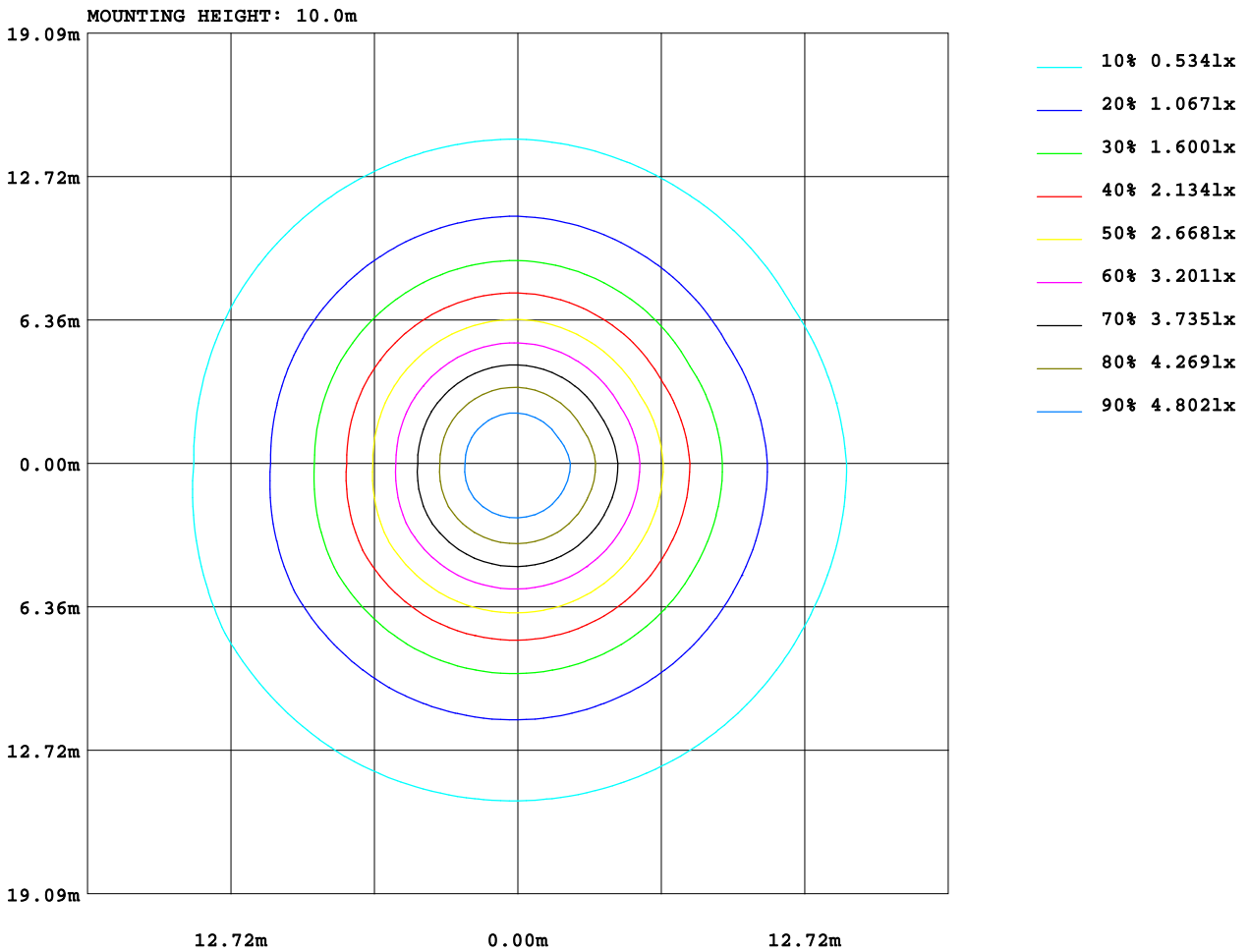
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators: RD
 Test Date: 01-20-2024

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.000 m
 Remarks: 91012418 RGB CCT LED Strip

ISOLUX DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

AREA LUMINOUS FLUX

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90		
90	0.01	0.08	0.19	0.32	0.43	0.52	0.59	0.65	0.65	0.63	0.59	0.51	0.44	0.36	0.27	0.21	0.14	0.05	6.65	0.00	
80	0.03	0.17	0.49	0.94	1.39	1.81	2.21	2.52	2.66	2.60	2.36	1.97	1.57	1.19	0.80	0.49	0.26	0.07	23.5	18.8	
70	0.04	0.29	0.89	1.73	2.69	3.73	4.70	5.43	5.79	5.70	5.17	4.32	3.34	2.35	1.49	0.84	0.38	0.09	49.0	48.2	
60	0.05	0.43	1.30	2.57	4.09	5.67	7.09	8.13	8.67	8.56	7.83	6.63	5.19	3.66	2.27	1.23	0.50	0.10	74.0	73.6	
50	0.06	0.57	1.69	3.34	5.34	7.36	9.15	10.4	11.1	10.9	10.1	8.64	6.82	4.84	3.05	1.63	0.63	0.12	95.9	95.7	
40	0.08	0.69	2.01	4.00	6.38	8.75	10.8	12.3	13.0	12.9	11.9	10.3	8.17	5.87	3.77	2.01	0.76	0.13	114	114	
30	0.09	0.78	2.27	4.52	7.16	9.82	12.0	13.7	14.5	14.3	13.3	11.5	9.24	6.77	4.38	2.32	0.87	0.15	128	128	
20	0.09	0.85	2.45	4.86	7.67	10.5	12.9	14.6	15.4	15.3	14.2	12.4	10.1	7.48	4.84	2.57	0.95	0.15	138	138	
10	0.10	0.88	2.53	5.02	7.92	10.8	13.3	15.1	15.9	15.8	14.8	13.1	10.7	7.93	5.14	2.73	1.00	0.16	143	143	
0	0.10	0.89	2.57	5.08	8.01	10.9	13.4	15.2	16.0	16.0	15.0	13.3	10.8	8.04	5.21	2.76	1.01	0.16	145	145	
-10	0.10	0.88	2.55	5.04	7.95	10.8	13.3	14.9	15.7	15.6	14.7	12.9	10.5	7.79	5.04	2.67	0.99	0.16	142	142	
-20	0.09	0.84	2.44	4.82	7.63	10.3	12.6	14.2	14.9	14.8	13.9	12.2	9.91	7.29	4.71	2.49	0.92	0.15	135	135	
-30	0.09	0.76	2.23	4.42	7.01	9.47	11.5	13.0	13.7	13.6	12.7	11.1	8.98	6.56	4.22	2.23	0.83	0.14	123	123	
-40	0.07	0.65	1.95	3.87	6.06	8.20	10.0	11.3	11.9	11.8	11.0	9.65	7.74	5.61	3.59	1.90	0.72	0.13	107	106	
-50	0.06	0.53	1.59	3.14	4.89	6.63	8.17	9.21	9.71	9.62	8.96	7.78	6.21	4.49	2.85	1.51	0.60	0.11	86.1	85.8	
-60	0.05	0.39	1.18	2.29	3.51	4.80	5.94	6.67	7.01	6.94	6.46	5.61	4.46	3.19	2.05	1.12	0.47	0.10	62.2	61.8	
-70	0.04	0.26	0.77	1.44	2.05	2.67	3.25	3.68	3.87	3.83	3.57	3.09	2.49	1.87	1.27	0.75	0.34	0.08	35.3	34.2	
-80	0.02	0.15	0.40	0.69	0.93	1.13	1.27	1.34	1.35	1.33	1.28	1.17	1.02	0.83	0.61	0.40	0.21	0.06	14.2	5.59	
-90																					
	Φ t	1.16	10.0	29.5	58.1	91.1	124	153	173	182	181	168	147	118	86.1	55.6	29.9	11.6	2.12	1654	
	Φ a	0.13	8.60	28.2	56.9	89.9	123	151	171	181	179	167	145	116	84.7	54.2	28.5	10.2	1.00		1599

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

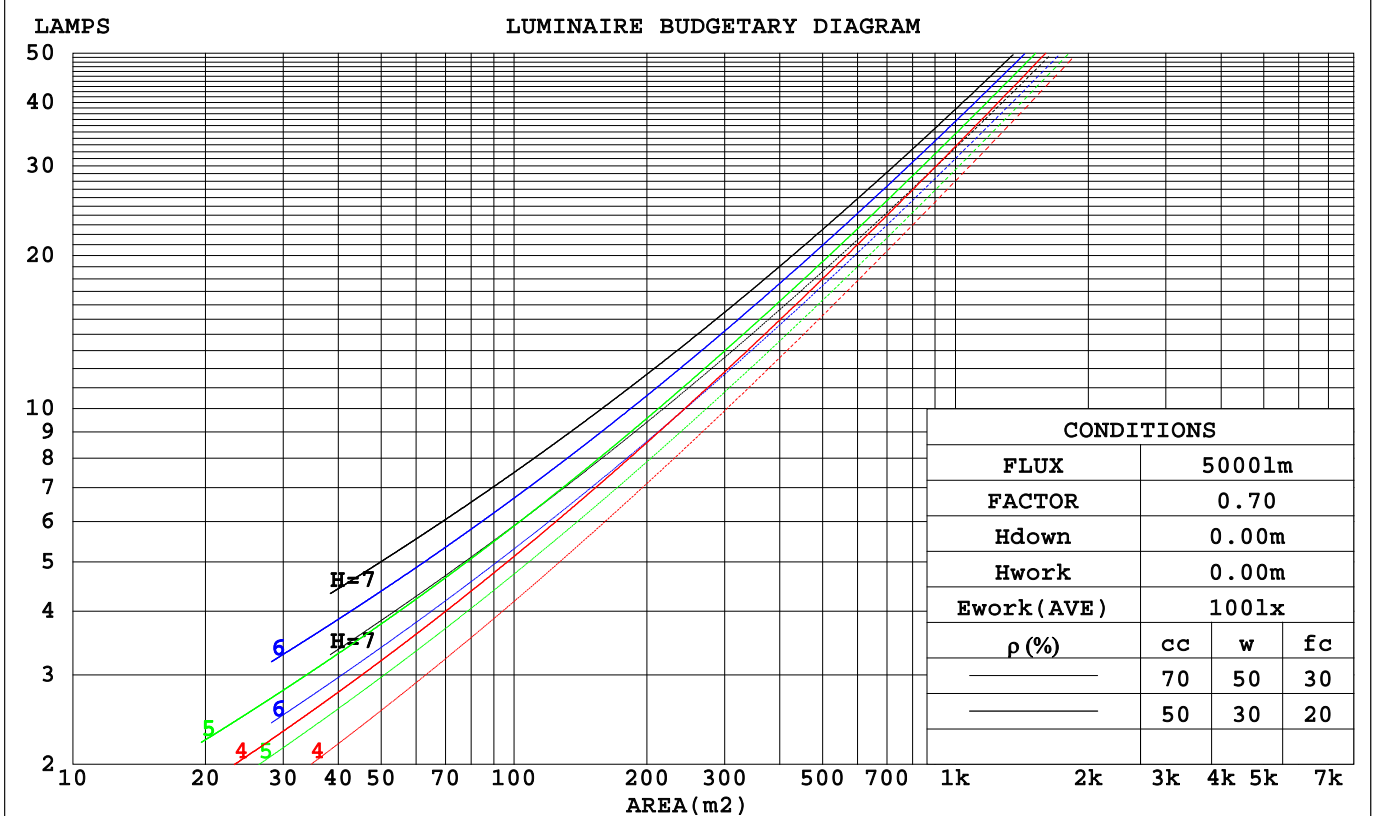
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGBCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGBCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.01	.96	.93	.96	.93	.90	.92	.89	.86	.88	.86	.84	.81
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.70	.63	.77	.69	.63	.73	.67	.61	.70	.65	.60	.67	.63	.59	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.62	.52	.46	.60	.52	.45	.58	.50	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.40	.54	.46	.39	.52	.45	.39	.50	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGBCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

WEC AND CCEC

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.319	.182	.058	.312	.178	.056	.297	.171	.054	.284	.164	.053	.272	.158	.051	
2.0	.298	.163	.050	.291	.160	.049	.278	.155	.048	.267	.150	.047	.256	.145	.046	
3.0	.274	.146	.044	.268	.144	.043	.257	.139	.042	.247	.135	.041	.237	.131	.041	
4.0	.253	.131	.039	.247	.129	.038	.237	.126	.038	.228	.122	.037	.219	.119	.036	
5.0	.233	.119	.034	.228	.117	.034	.219	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.177	.089	.025	.171	.087	.025	.165	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.205	.205	.205	.175	.175	.175	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.196	.171	.148	.167	.147	.128	.115	.101	.088	.066	.058	.051	.021	.019	.017	
2.0	.188	.147	.112	.161	.126	.097	.110	.087	.068	.064	.051	.040	.020	.016	.013	
3.0	.180	.129	.089	.155	.111	.077	.106	.077	.054	.061	.045	.032	.020	.015	.010	
4.0	.173	.116	.073	.148	.100	.063	.102	.070	.045	.059	.041	.026	.019	.013	.009	
5.0	.165	.106	.062	.142	.091	.054	.098	.064	.038	.057	.038	.023	.018	.012	.007	
6.0	.158	.097	.054	.136	.084	.047	.094	.059	.033	.054	.035	.020	.018	.011	.007	
7.0	.151	.091	.048	.130	.078	.042	.090	.055	.030	.052	.032	.018	.017	.011	.006	
8.0	.145	.085	.044	.125	.074	.038	.086	.052	.027	.050	.030	.016	.016	.010	.005	
9.0	.139	.080	.040	.119	.069	.035	.083	.049	.025	.048	.029	.015	.016	.009	.005	
10.0	.133	.076	.037	.115	.066	.033	.079	.046	.023	.046	.027	.014	.015	.009	.005	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

Uncorrected UGR Table

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy										
Address: FI										
NAME: RGB CCT LED Strip					TYPE: 91012418			WEIGHT:		
SPECIFICATION: RGB CCT 5050					DIMENSION: 12 x 1000mm			SERIAL No.: 01		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	18.6	20.2	18.9	20.4	20.6	19.0	20.5	19.3	20.8	21.0
3H	20.3	21.7	20.6	21.9	22.2	20.7	22.1	21.0	22.4	22.6
4H	21.0	22.3	21.3	22.6	22.9	21.3	22.6	21.6	22.9	23.2
6H	21.5	22.8	21.9	23.1	23.4	21.8	23.0	22.1	23.3	23.6
8H	21.8	23.0	22.1	23.3	23.6	21.9	23.1	22.3	23.4	23.8
12H	22.0	23.2	22.4	23.5	23.8	22.0	23.2	22.4	23.5	23.9
4H 2H	19.3	20.7	19.7	21.0	21.3	19.6	21.0	20.0	21.3	21.6
3H	21.1	22.3	21.5	22.6	23.0	21.5	22.6	21.9	23.0	23.3
4H	21.9	23.0	22.3	23.4	23.7	22.2	23.3	22.6	23.6	24.0
6H	22.6	23.6	23.1	24.0	24.4	22.8	23.7	23.2	24.1	24.5
8H	23.0	23.8	23.4	24.2	24.7	23.0	23.9	23.4	24.3	24.7
12H	23.3	24.1	23.7	24.5	24.9	23.2	24.0	23.6	24.4	24.9
8H 4H	22.2	23.1	22.7	23.5	24.0	22.5	23.3	22.9	23.7	24.2
6H	23.1	23.8	23.6	24.3	24.8	23.2	23.9	23.7	24.4	24.8
8H	23.6	24.2	24.1	24.7	25.2	23.5	24.2	24.0	24.6	25.1
12H	24.0	24.6	24.5	25.0	25.6	23.8	24.4	24.3	24.9	25.4
12H 4H	22.3	23.1	22.7	23.5	23.9	22.5	23.3	22.9	23.7	24.2
6H	23.2	23.8	23.7	24.3	24.8	23.3	23.9	23.8	24.4	24.9
8H	23.7	24.3	24.2	24.8	25.3	23.7	24.2	24.2	24.7	25.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1653 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.7)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

UTILIZATION FACTORS TABLE

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	56	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	76
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	103	98	105	101	97	100	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators: RD
 Test Date: 01-20-2024

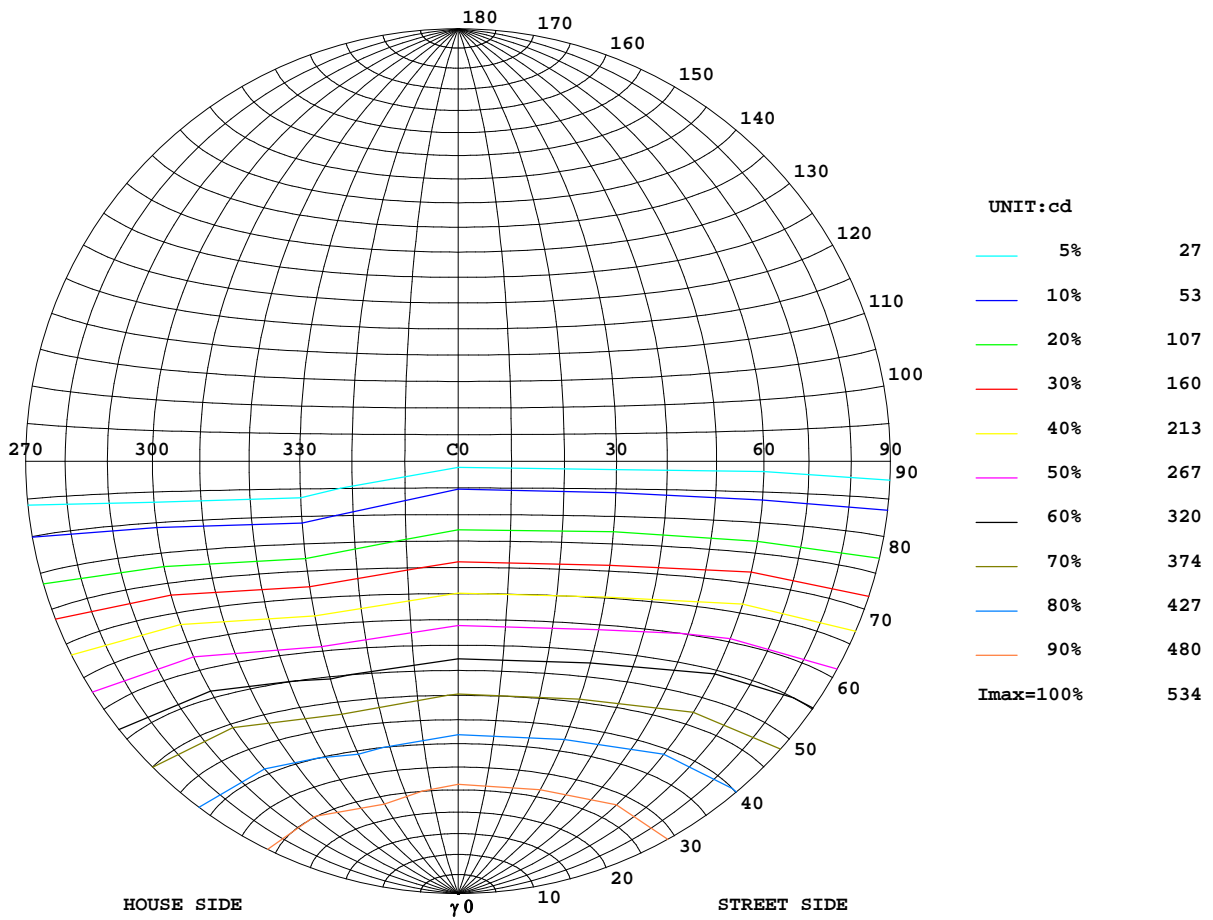
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

ISOCANDELA DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01



Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators: RD
 Test Date: 01-20-2024

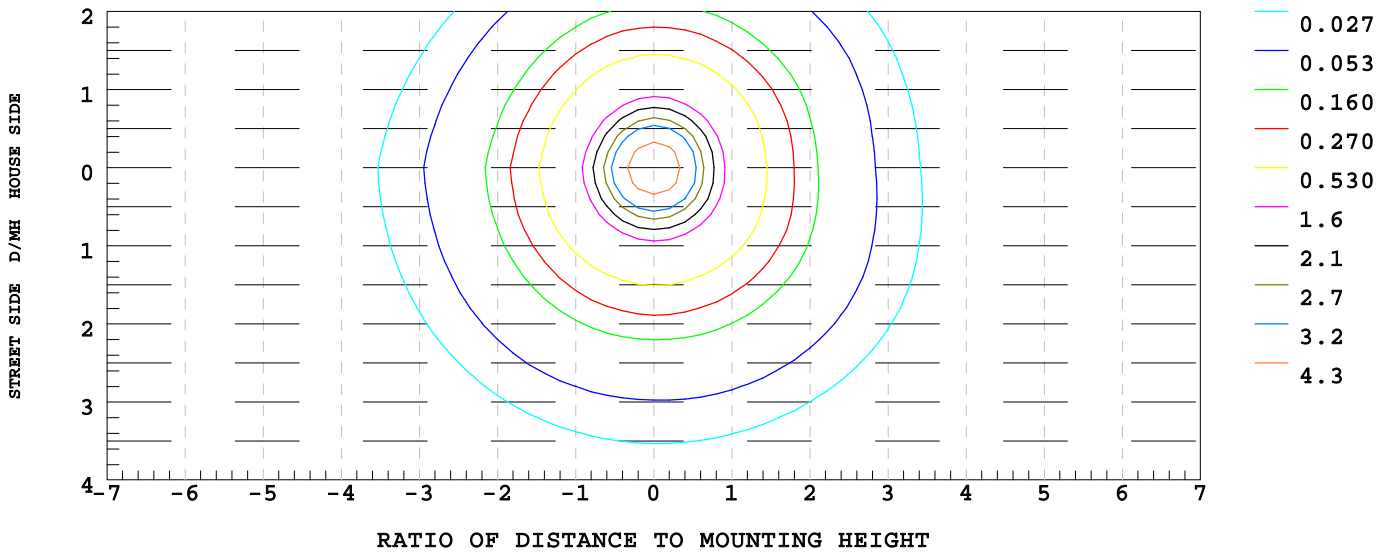
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.000 m
 Remarks: 91012418 RGB CCT LED Strip

ISOLUX DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGBCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGBCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

ILLUMINANCE AT MH=10 m, Enadir = 5.34 lx



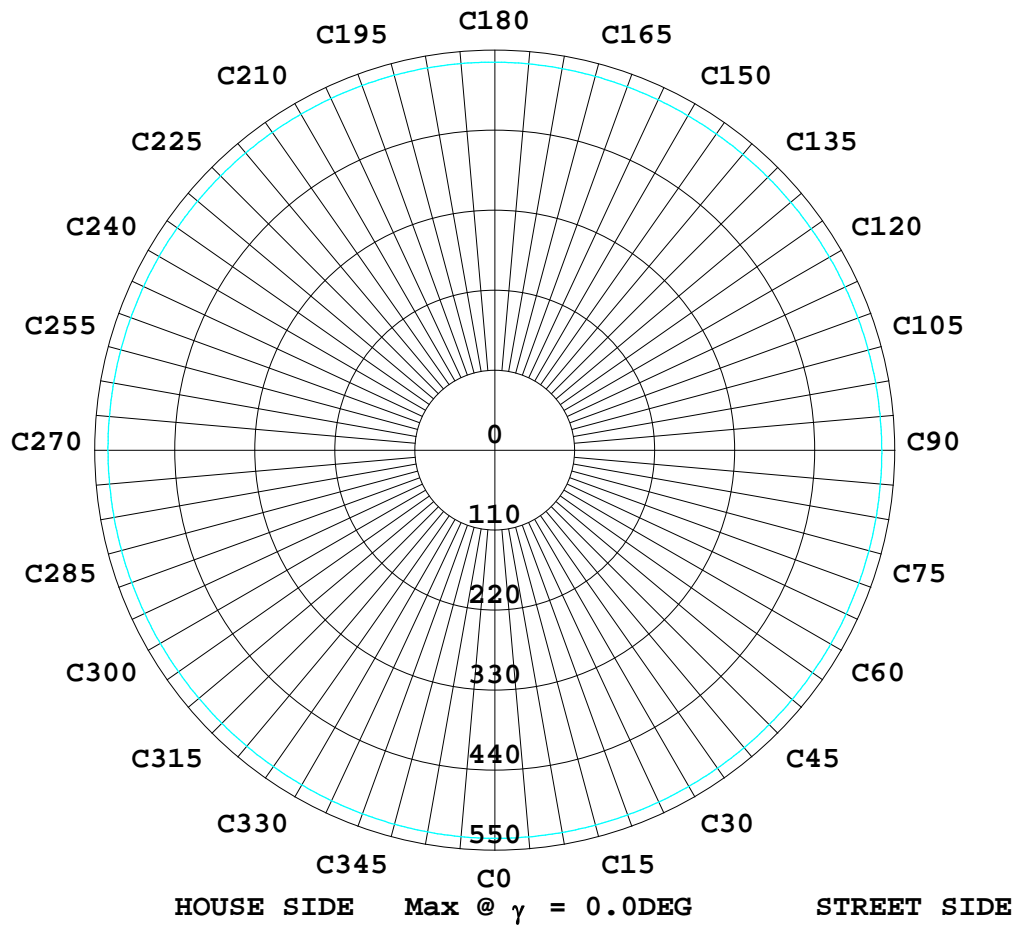
Test System:HOPPO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGBCT LED Strip

ISOCANDELA DIAGRAM

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:RD
 Test Date:01-20-2024

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 91012418 RGB CCT LED Strip

KVS Valaistussuunnittelu Oy IES TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: KVS-RP20240120-2

MANUFACTURER: KVS Valaistussuunnittelu Oy		
Address: FI		
NAME: RGB CCT LED Strip	TYPE: 91012418	WEIGHT:
SPECIFICATION: RGB CCT 5050	DIMENSION: 12 x 1000mm	SERIAL No.: 01

UNIT: cd

γ (DEG) \ C (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	534	534	533	532	531	531	534	534	533	532	531	531
5.0	532	532	532	532	532	533	532	532	531	529	527	526
10.0	526	526	528	528	529	530	527	527	525	522	519	518
15.0	516	517	519	521	523	524	517	518	515	512	508	506
20.0	503	503	508	510	513	514	503	504	502	498	493	489
25.0	485	487	492	495	500	500	486	487	485	481	474	470
30.0	464	465	473	477	482	481	463	466	464	459	450	445
35.0	438	441	449	454	460	459	436	439	438	433	423	417
40.0	409	411	422	427	434	432	405	409	408	403	392	385
45.0	375	378	390	396	403	400	369	375	373	369	356	349
50.0	338	342	354	361	368	365	330	336	334	330	316	309
55.0	299	302	315	322	329	325	288	294	292	288	274	268
60.0	257	259	272	278	286	281	243	249	246	242	229	224
65.0	214	215	227	233	241	236	195	202	198	194	182	179
70.0	169	170	181	180	194	189	148	155	145	137	130	135
75.0	126	125	125	124	133	141	111	108	90.1	82.2	78.9	92.9
80.0	81.4	84.0	77.5	80.5	81.1	95.7	60.0	66.4	52.4	47.6	45.1	56.5
85.0	51.7	48.5	44.9	41.3	50.4	55.1	22.7	29.1	21.3	16.2	17.8	24.6
90.0	18.8	17.2	17.4	11.9	19.2	19.5	2.04	5.37	3.77	4.16	2.56	4.41
95.0	3.71	2.56	3.96	2.36	4.48	2.94	2.36	3.45	2.30	3.32	2.43	3.64
100.0	3.84	2.68	3.64	2.36	3.45	2.43	2.68	3.58	2.62	3.52	2.75	3.77
105.0	4.03	3.07	3.77	2.75	3.64	2.81	3.00	3.77	3.00	3.77	3.13	4.03
110.0	4.28	3.45	4.03	3.20	3.84	3.13	3.39	4.09	3.39	4.03	3.52	4.35
115.0	4.60	3.84	4.28	3.58	4.09	3.52	3.77	4.35	3.77	4.35	3.96	4.67
120.0	4.92	4.28	4.60	3.96	4.48	3.90	4.22	4.67	4.16	4.73	4.35	4.99
125.0	5.24	4.73	4.99	4.41	4.80	4.28	4.67	5.05	4.60	5.12	4.80	5.37
130.0	5.63	5.12	5.37	4.86	5.12	4.73	5.05	5.37	4.99	5.44	5.24	5.69
135.0	5.95	5.50	5.76	5.31	5.50	5.18	5.44	5.69	5.44	5.82	5.63	6.01
140.0	6.27	5.88	6.08	5.69	5.82	5.56	5.76	6.08	5.76	6.14	5.95	6.33
145.0	6.59	6.20	6.40	6.01	6.14	5.88	6.08	6.33	6.08	6.46	6.33	6.59
150.0	6.84	6.52	6.72	6.33	6.46	6.27	6.40	6.65	6.40	6.72	6.59	6.84
155.0	7.10	6.78	6.91	6.65	6.72	6.52	6.65	6.84	6.65	6.91	6.84	7.04
160.0	7.36	6.97	7.16	6.84	6.91	6.78	6.91	7.10	6.91	7.16	7.04	7.23
165.0	7.55	7.16	7.29	7.10	7.16	7.04	7.10	7.23	7.10	7.36	7.23	7.42
170.0	7.68	7.36	7.42	7.36	7.36	7.23	7.36	7.42	7.29	7.55	7.36	7.48
175.0	7.68	7.42	7.55	7.48	7.42	7.36	7.48	7.55	7.42	7.68	7.42	7.61
180.0	7.68	7.48	7.55	7.61	7.55	7.42	7.68	7.61	7.48	7.68	7.42	7.55

Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators: RD
 Test Date: 01-20-2024

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.000 m
 Remarks: 91012418 RGB CCT LED Strip