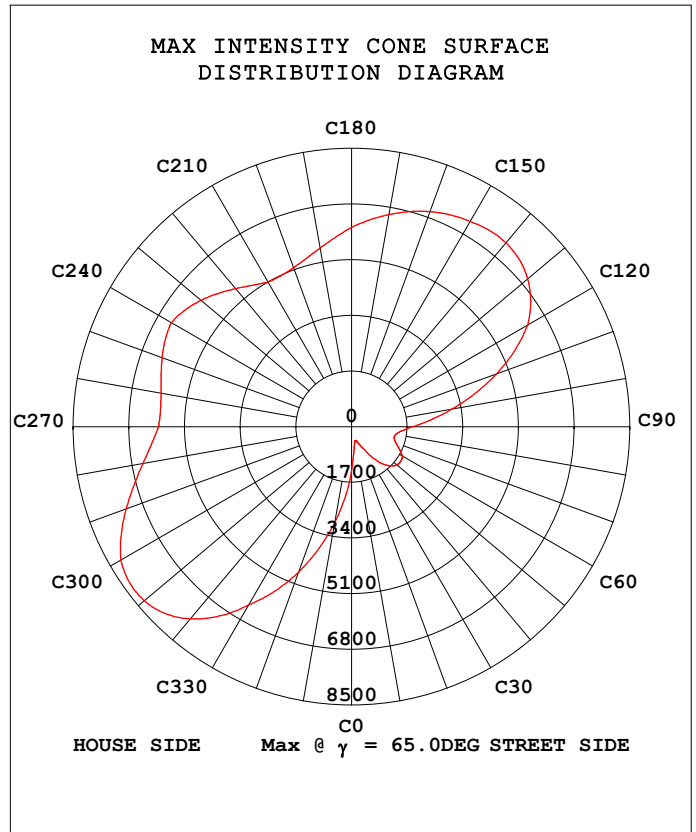
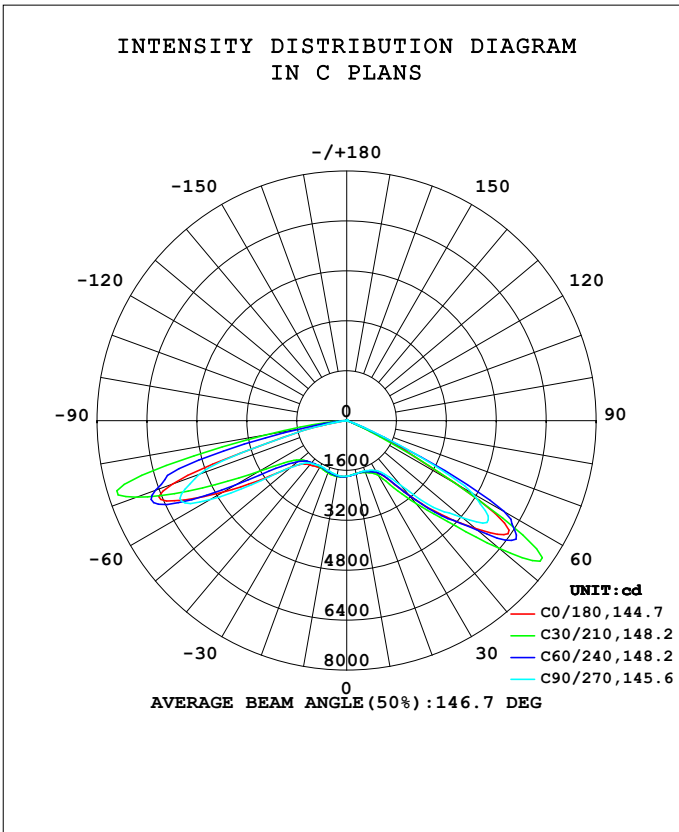


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	226101	Imax (cd)	8137	η street_up (%)	0.3
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	45.7
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	15784	η house_up (%)	0.3
NOMINAL FLUX (lm)	15784.5	MAXIMUM @ (C, γ)	300,65.0	η house_down (%)	53.7
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	230	η down (%)	99.4	SLI	0.000

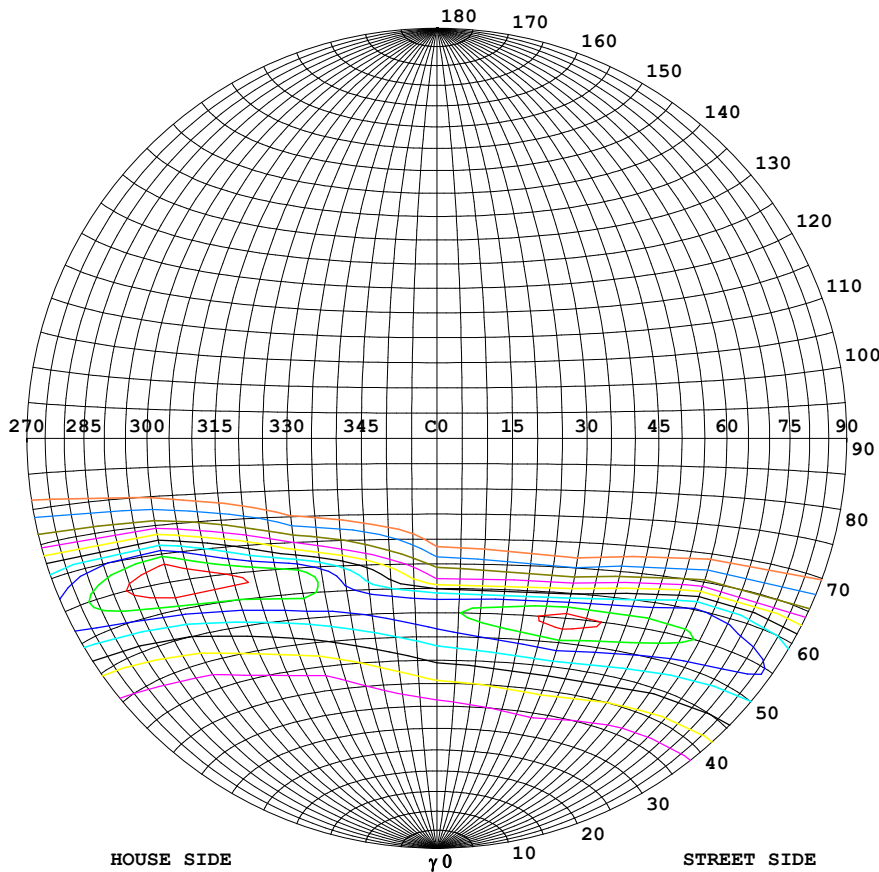


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



Classification:

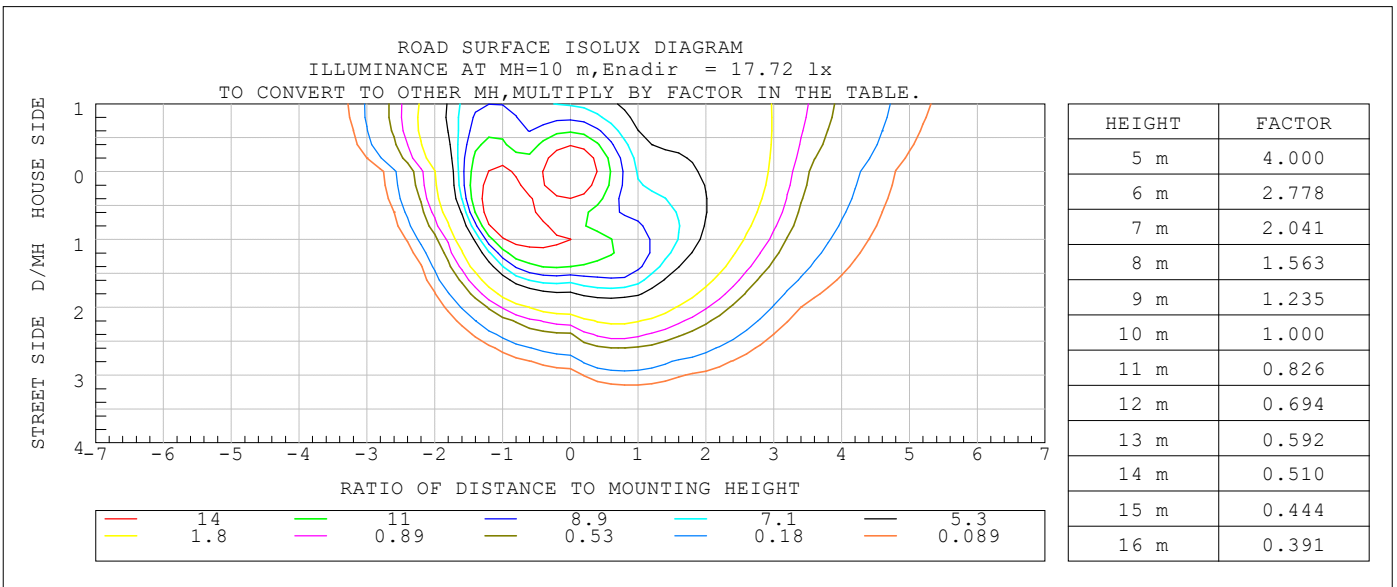
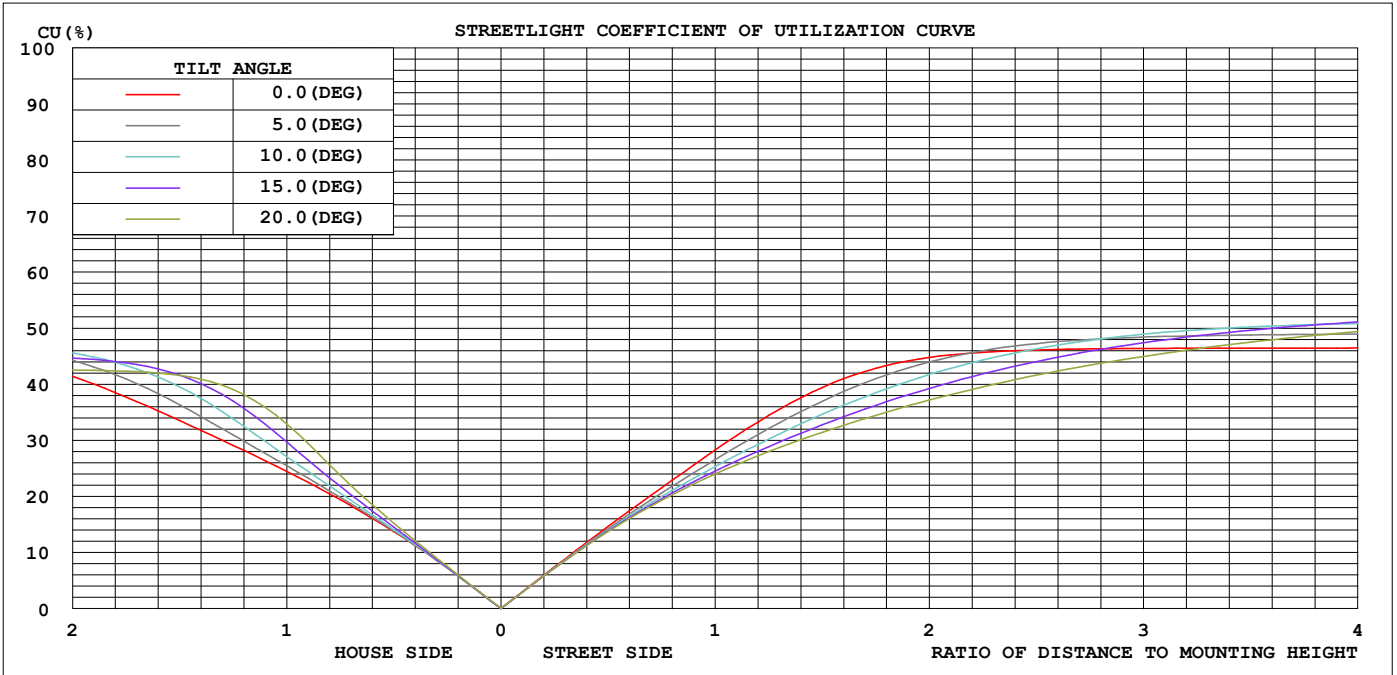
IES:Type III - Short
 CIE:Broad - Intermediate
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:165.8cd/klm
 Max.At90:2.485cd/klm
 Max.80-90:165.8cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	8137
— 90%	7323
— 80%	6509
— 70%	5696
— 60%	4882
— 50%	4068
— 40%	3255
— 30%	2441
— 20%	1627
— 10%	814
— 5%	407

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: ADMIN
Test Date: 2023-07-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 9.345m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

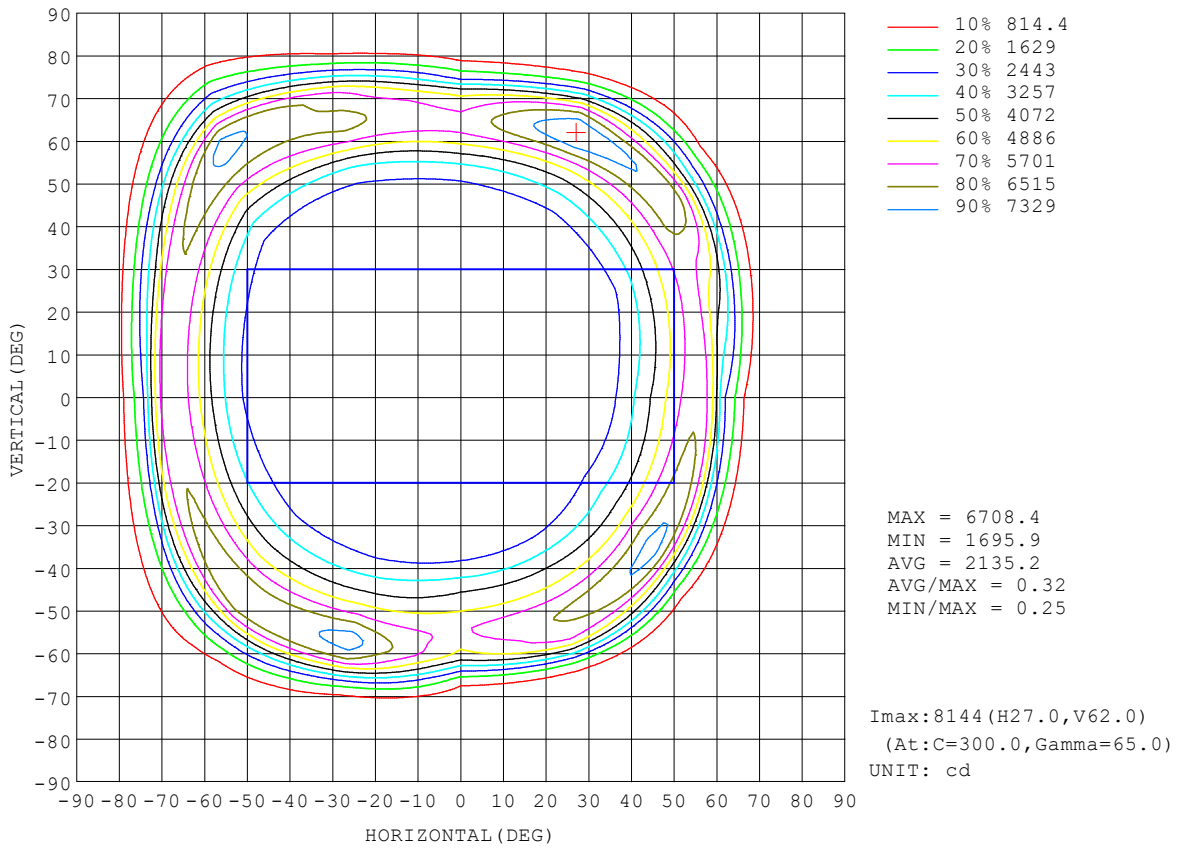
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1737	1733	1737	1751	1799	1810	1772	1756	0- 10	169.5	169.5	1.07,1.07
20	1756	1758	1721	1702	1764	1762	1720	1707	10- 20	494.0	663.5	4.2,4.2
30	1921	1975	1851	1769	1740	1708	1690	1744	20- 30	812.8	1476	9.35,9.35
40	3152	3315	2707	2059	1855	1769	1794	1970	30- 40	1258	2734	17.3,17.3
50	5363	5911	4839	3654	2323	2008	2341	3385	40- 50	2292	5026	31.8,31.8
60	4017	4898	4660	6815	4579	3702	5082	6467	50- 60	4172	9199	58.3,58.3
70	211.5	187.2	378.2	2838	5945	6851	5039	4297	60- 70	4523	13722	86.9,86.9
80	2.849	4.324	2.828	45.09	594.2	2049	589.1	203.3	70- 80	1823	15544	98.5,98.5
90	8.049	10.59	7.594	6.933	2.834	23.06	4.245	6.547	80- 90	148.2	15692	99.4,99.4
100	14.47	15.71	14.26	13.88	7.840	8.115	9.103	12.62	90-100	10.42	15703	99.5,99.5
110	16.56	16.68	17.37	17.80	14.42	14.75	15.16	16.53	100-110	15.31	15718	99.6,99.6
120	16.60	17.39	19.38	18.64	17.60	17.58	18.15	17.38	110-120	17.04	15735	99.7,99.7
130	16.06	16.98	17.41	17.79	17.10	18.80	19.82	18.05	120-130	16.12	15751	99.8,99.8
140	16.28	14.83	15.14	16.79	16.26	17.17	17.80	16.28	130-140	13.27	15765	99.9,99.9
150	12.88	11.65	11.97	13.51	17.18	17.15	15.07	12.91	140-150	9.586	15774	99.9,99.9
160	11.41	10.85	10.62	11.24	14.06	13.84	12.29	10.89	150-160	5.951	15780	100,100
170	11.47	10.97	10.61	10.85	12.33	11.91	11.05	10.52	160-170	3.238	15783	100,100
180	11.88	11.33	10.79	10.74	11.89	11.34	10.78	10.74	170-180	1.063	15784	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

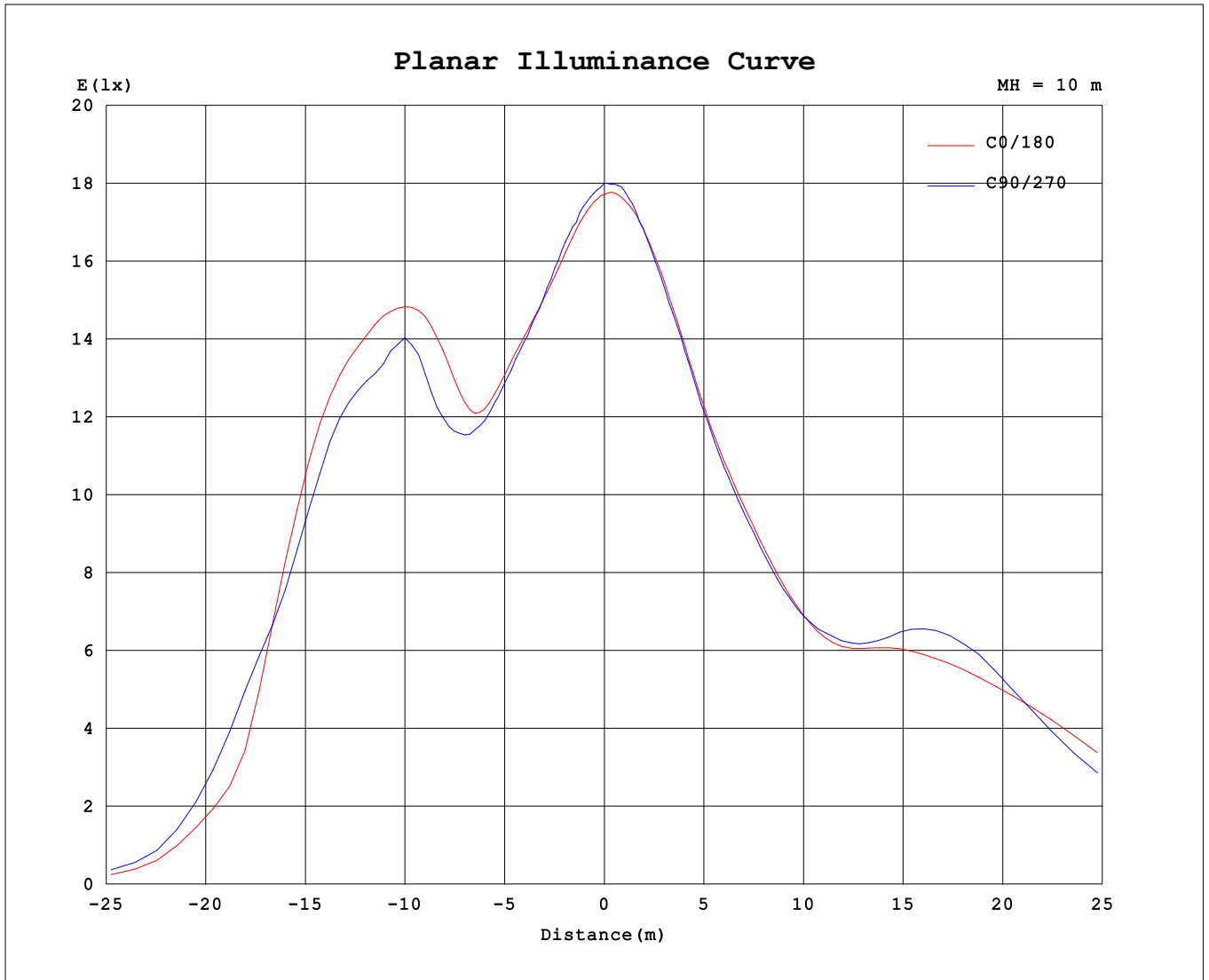
Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

Planar Illuminance Curve



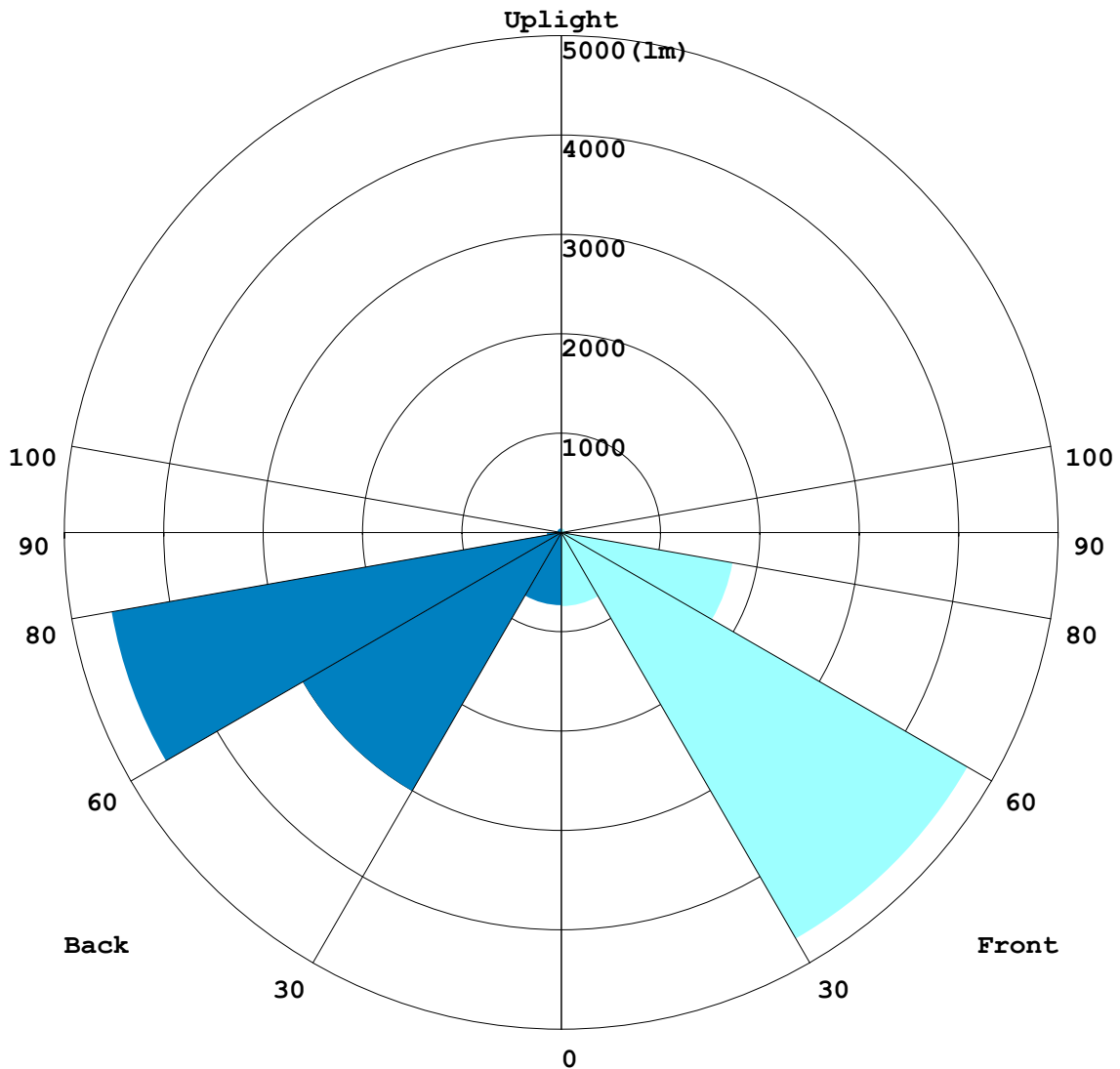
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	743.32	4.7
FM - Front-Medium(30-60)	4720	29.9
FH - Front-High(60-80)	1750	11.1
FVH - Front-Very High(80-90)	3.9386	0.0
Total Forward Light	7264.6	46.0

BL - Back-Low(0-30)	733.02	4.6
BM - Back-Medium(30-60)	3002.2	19.0
BH - Back-High(60-80)	4595.8	29.1
BVH - Back-Very High(80-90)	144.23	0.9
Total Back Light	8519.9	54.0

UL - Uplight-Low(90-100)	10.424	0.1
UH - Uplight-High(100-180)	81.568	0.5
Total Up Light	91.992	0.6

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	8475.2	44.661	8519.9
Street Side	7217.2	47.331	7264.6

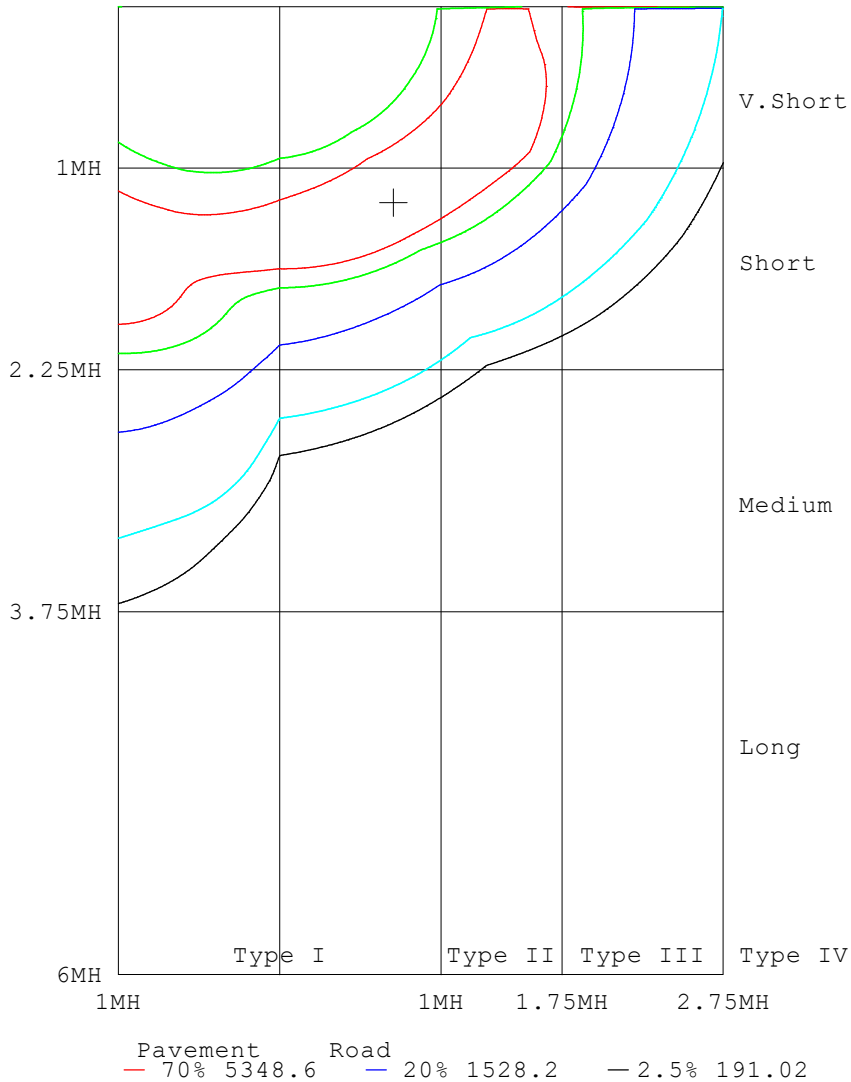
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.29V I:0.5212A P:117.50W PF:0.9788 Freq:49.99Hz Lamp Flux:15784.5x1 lm		
NAME: KARTELL-226101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1789	1789	1789	1789	1789	1789	1789	1789	1789	1789	1789	1789							
5	1764	1759	1764	1761	1766	1783	1801	1810	1810	1799	1789	1775							
10	1737	1730	1737	1737	1744	1759	1799	1821	1799	1772	1762	1750							
15	1726	1725	1720	1713	1716	1731	1787	1812	1775	1746	1732	1727							
20	1756	1771	1744	1721	1704	1700	1764	1783	1741	1720	1710	1704							
25	1823	1851	1807	1764	1741	1693	1737	1752	1713	1695	1692	1715							
30	1921	2035	1917	1851	1804	1734	1740	1720	1696	1690	1717	1770							
35	2272	2617	2243	2085	1899	1804	1787	1727	1721	1729	1777	1852							
40	3152	3477	3154	2707	2202	1915	1855	1769	1768	1794	1869	2072							
45	4235	4580	4311	3945	3027	2268	1971	1837	1842	1936	2124	2763							
50	5363	6362	5464	4839	4174	3134	2323	1964	2052	2341	2859	3912							
55	6321	7659	6631	5546	5770	4279	3248	2299	2558	3346	4068	5232							
60	4017	3975	5816	4660	7628	6001	4579	3276	4125	5082	6158	6776							
65	1334	827	1798	1860	6207	7236	6090	5101	6359	5900	8137	6282							
70	212	93.8	280	378	1839	3836	5945	7185	6519	5039	6189	2406							
75	12.7	2.93	5.78	19.3	250	806	2135	6813	4907	2115	2094	428							
80	2.85	4.62	4.03	2.83	3.88	86.3	594	2617	1485	589	378	28.6							
85	4.54	7.86	6.35	4.32	5.17	3.28	56.8	521	277	71.7	14.2	4.53							
90	8.05	11.4	9.81	7.59	8.24	5.63	2.83	39.2	6.99	4.25	6.43	6.66							
95	11.6	14.4	13.0	11.2	11.9	9.02	4.70	4.72	6.11	6.06	9.03	9.95							
100	14.5	16.2	15.2	14.3	15.1	12.6	7.84	7.48	8.74	9.10	12.3	13.0							
105	16.2	16.7	16.0	16.2	17.2	15.8	11.3	11.1	12.2	12.3	15.1	15.4							
110	16.6	16.9	16.5	17.4	17.7	17.9	14.4	14.4	15.1	15.2	16.6	16.4							
115	16.9	16.8	17.3	18.6	18.1	18.3	16.8	17.0	16.7	17.0	16.8	16.6							
120	16.6	16.5	18.2	19.4	19.3	18.0	17.6	17.9	17.2	18.2	17.6	17.2							
125	16.1	16.2	18.2	18.9	19.2	17.9	17.7	18.0	18.5	19.2	18.9	17.6							
130	16.1	16.5	17.4	17.4	17.9	17.7	17.1	18.4	19.2	19.8	19.2	16.9							
135	16.6	16.5	16.4	16.2	17.1	17.1	16.2	18.3	18.0	19.1	18.2	15.9							
140	16.3	14.9	14.8	15.1	16.6	17.0	16.3	17.4	16.9	17.8	17.3	15.3							
145	14.5	13.1	12.9	13.6	14.8	16.0	17.2	18.0	17.0	16.5	15.7	13.8							
150	12.9	11.9	11.4	12.0	12.8	14.2	17.2	18.1	16.2	15.1	13.6	12.2							
155	11.9	11.4	10.7	11.0	11.6	12.6	15.7	16.4	14.7	13.6	12.2	11.1							
160	11.4	11.2	10.5	10.6	10.9	11.6	14.1	14.5	13.2	12.3	11.2	10.5							
165	11.3	11.2	10.5	10.5	10.8	11.1	12.9	13.1	12.1	11.4	10.7	10.3							
170	11.5	11.3	10.6	10.6	10.8	10.9	12.3	12.3	11.5	11.1	10.6	10.4							
175	11.7	11.5	10.8	10.7	10.7	10.8	12.0	11.8	11.2	10.9	10.7	10.6							
180	11.9	11.6	11.0	10.8	10.7	10.7	11.9	11.6	11.0	10.8	10.7	10.7							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks: