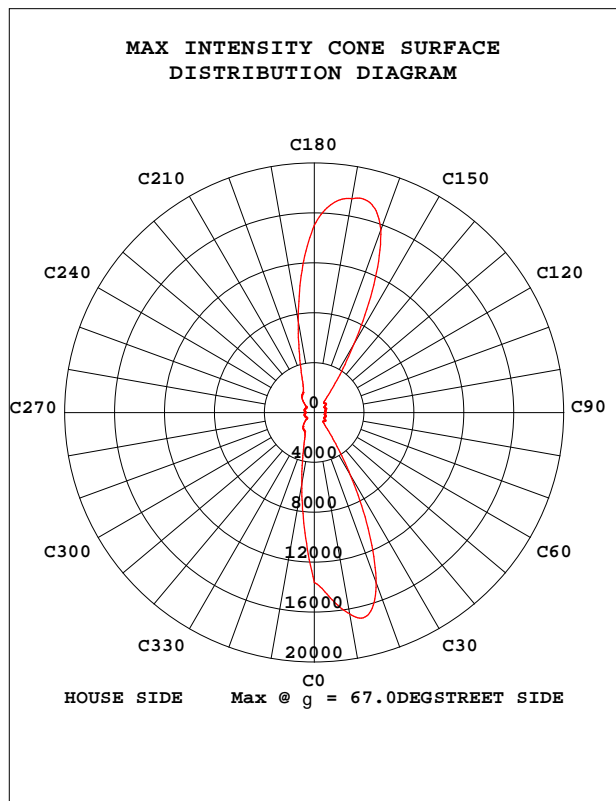
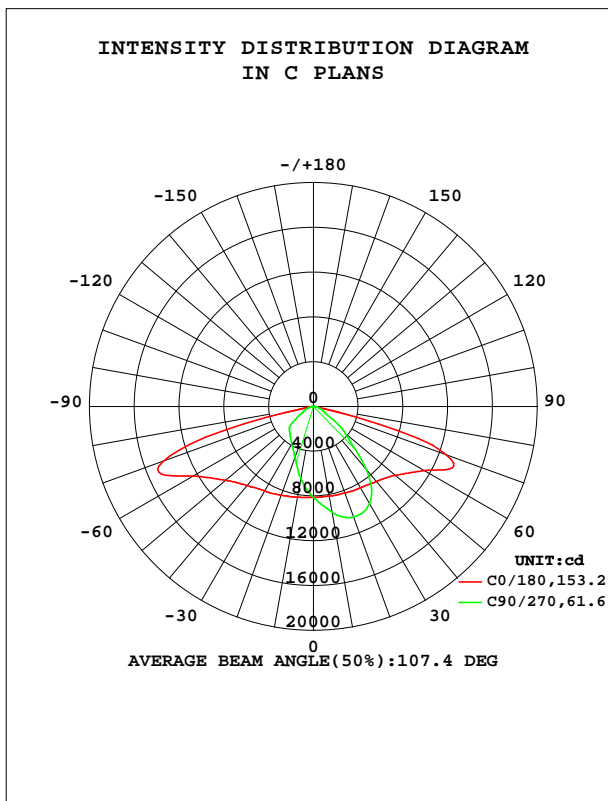


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.19 lm/W			
MODEL ARST50D8LED5050T2M-cutoff	Imax(cd)	17417	h street_up(%)	0.0	
NOMINAL POWER(W)	173	LOR(%)	100.0	h street_down(%)	65.5
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	27833	h house_up(%)	0.0
NOMINAL FLUX(lm)	27833.9	MAXIMUM @(C,g)	170,67.0	h house_down(%)	34.5
LAMPS INSIDE	1	h up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220	h down(%)	100.0	SLI	22.133

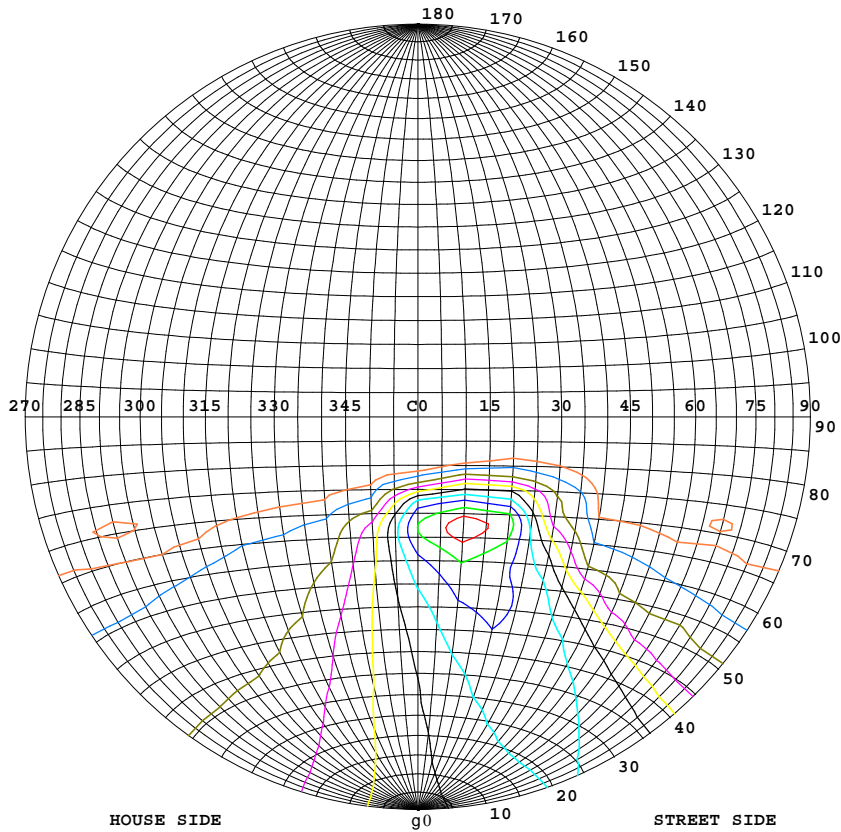


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A



Classification:

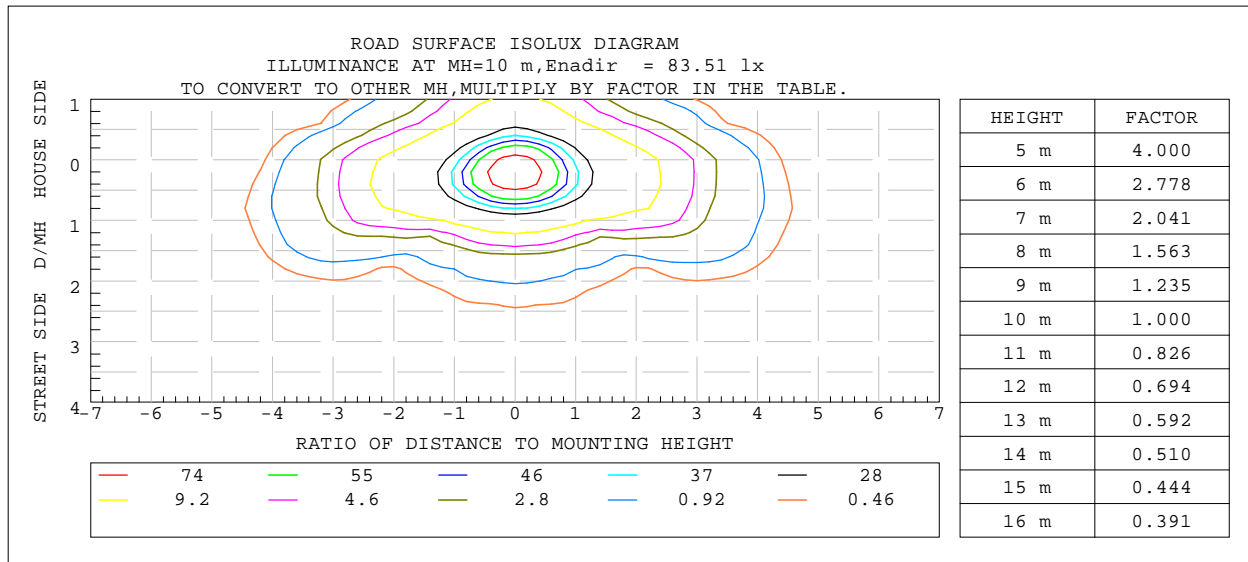
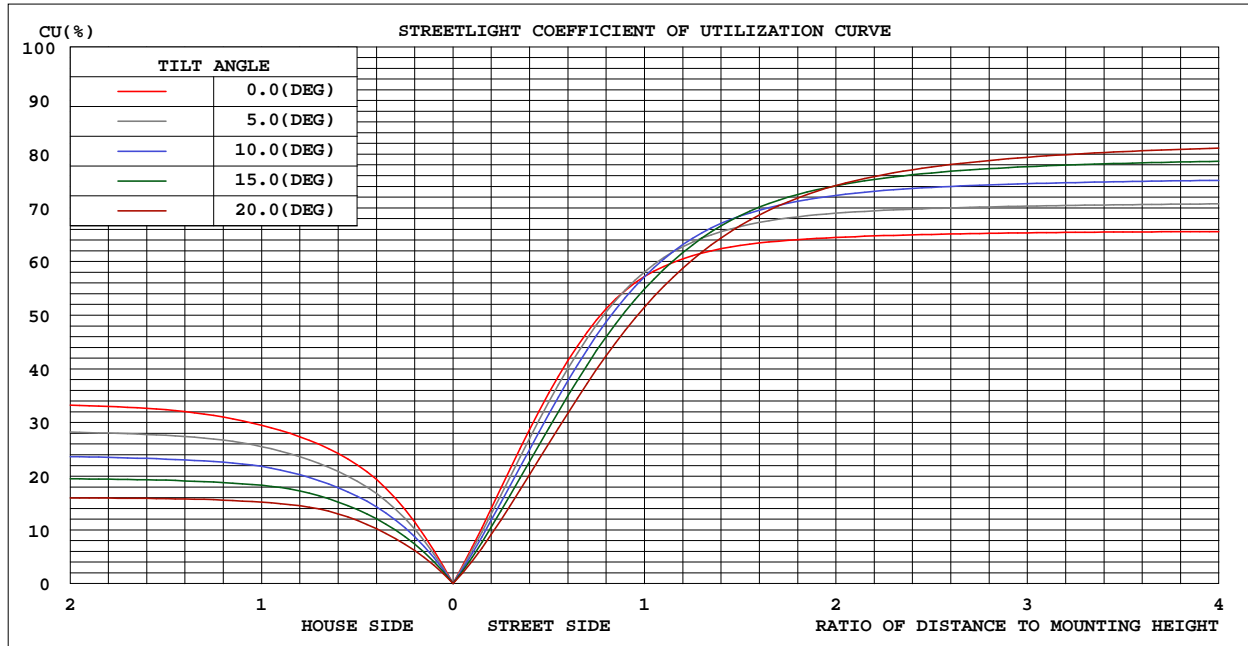
IES:Type II - Medium
 CIE:Narrow - Intermediate
 IES:Full cut-off
 CIE:Semi-cut-off
 Max.At80:64.52cd/klm
 Max.At90:0cd/klm
 Max.80-90:64.52cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	17417
90%	15676
80%	13934
70%	12192
60%	10450
50%	8709
40%	6967
30%	5225
20%	3483
10%	1742
5%	871

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Summer
Test Date: 2023-03-06

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.445
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks: L207-0810

ZONAL FLUX DIAGRAM

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

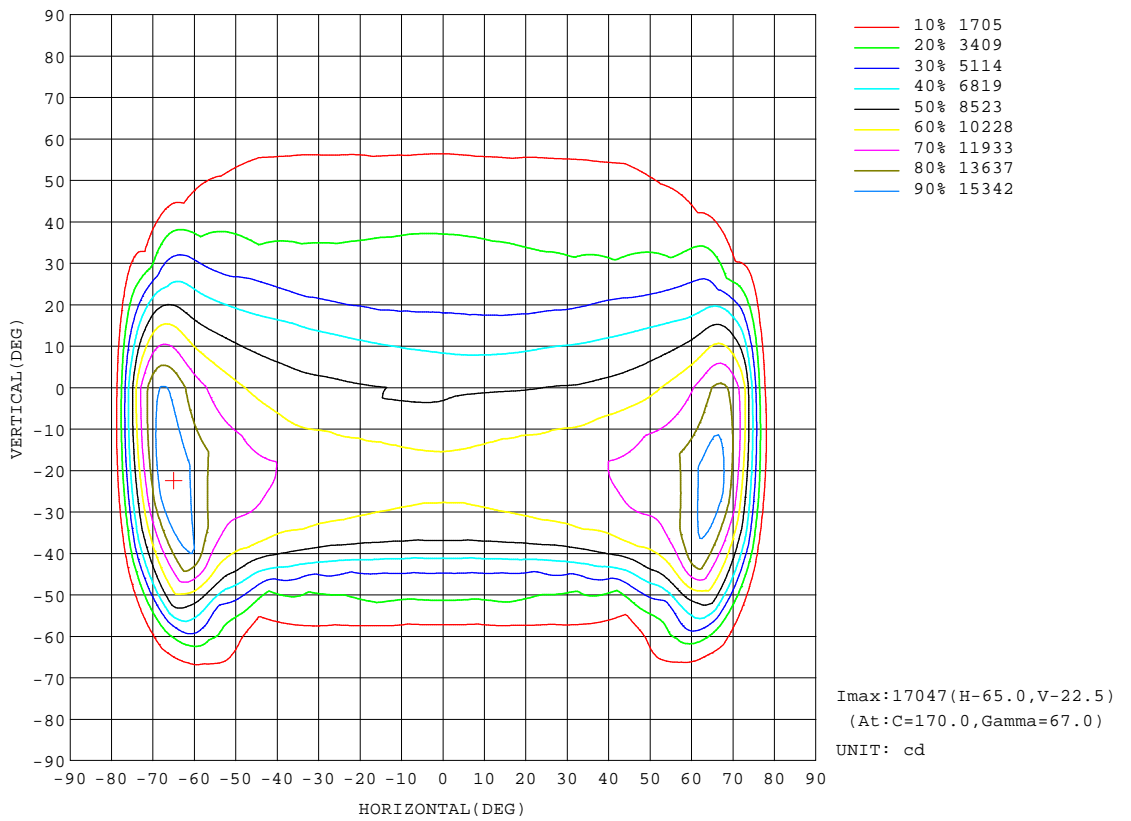
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	813.3	911.2	959.6	919.1	823.1	711.4	654.6	702.7	0- 10	774.5	774.5	2.78,2.78
20	821.9	1032	1051	1048	843.2	594.2	486.1	577.1	10- 20	2297	3072	11,11
30	839.6	1090	1001	1111	873.2	459.9	387.3	442.8	20- 30	3678	6750	24.3,24.3
40	875.8	1042	736.1	1067	923.5	365.9	327.0	357.6	30- 40	4738	11488	41.3,41.3
50	957.9	786.4	371.5	811.3	1027	303.8	276.1	294.6	40- 50	5125	16613	59.7,59.7
60	1147	314.5	122.1	329.2	1243	227.1	121.9	215.0	50- 60	4796	21409	76.9,76.9
70	1264	86.03	73.89	91.20	1429	87.11	61.63	78.30	60- 70	4205	25614	92,92
80	41.78	26.67	19.71	29.28	64.22	22.46	16.58	19.79	70- 80	2078	27693	99.5,99.5
90	0	0	0	0	0	0	0	0	80- 90	140.7	27833	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810

ISOCANDELA DIAGRAM

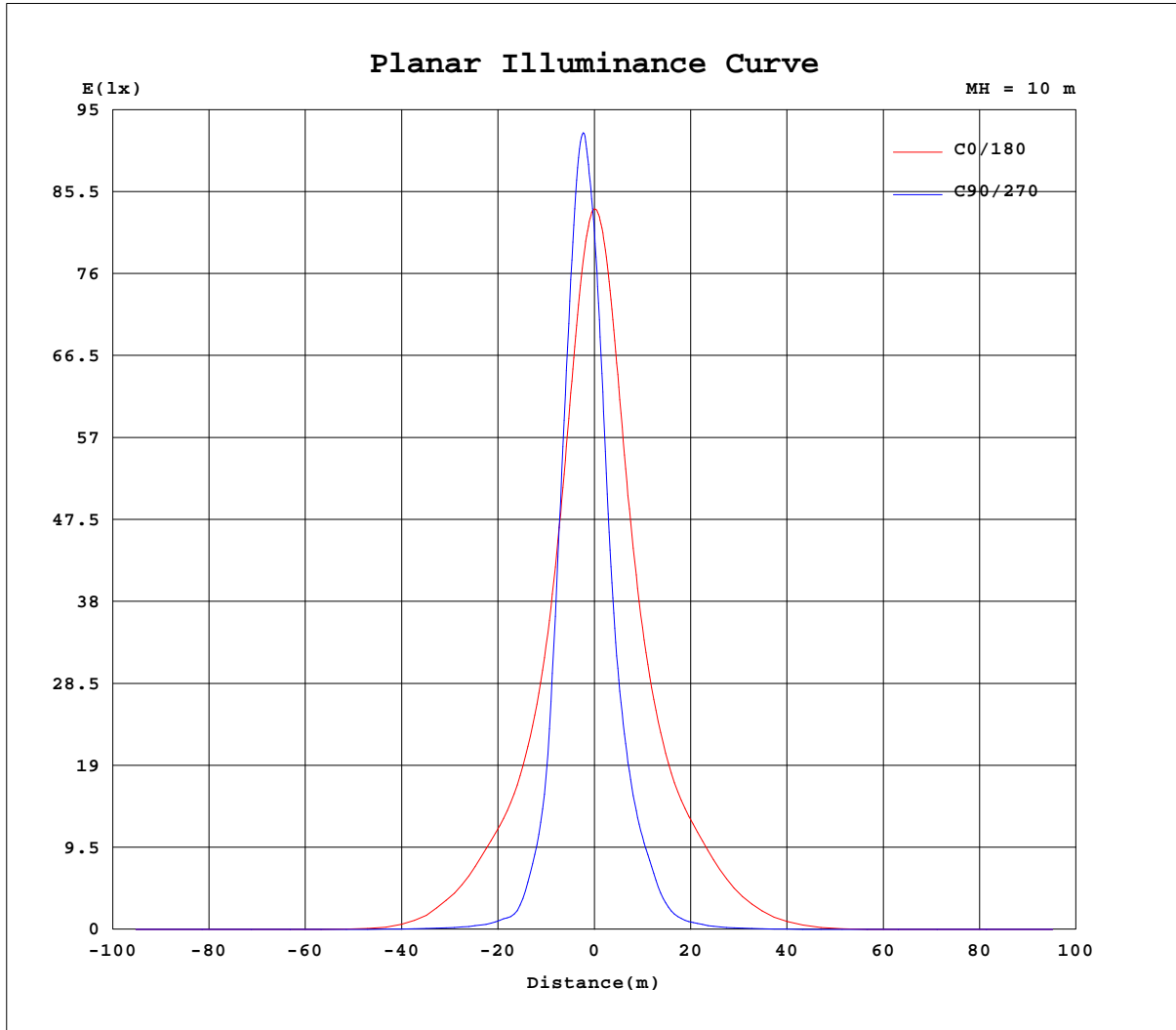
Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
N/A.:	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Summer
Test Date:2023-03-06

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks: L207-0810

Planar Illuminance Curve



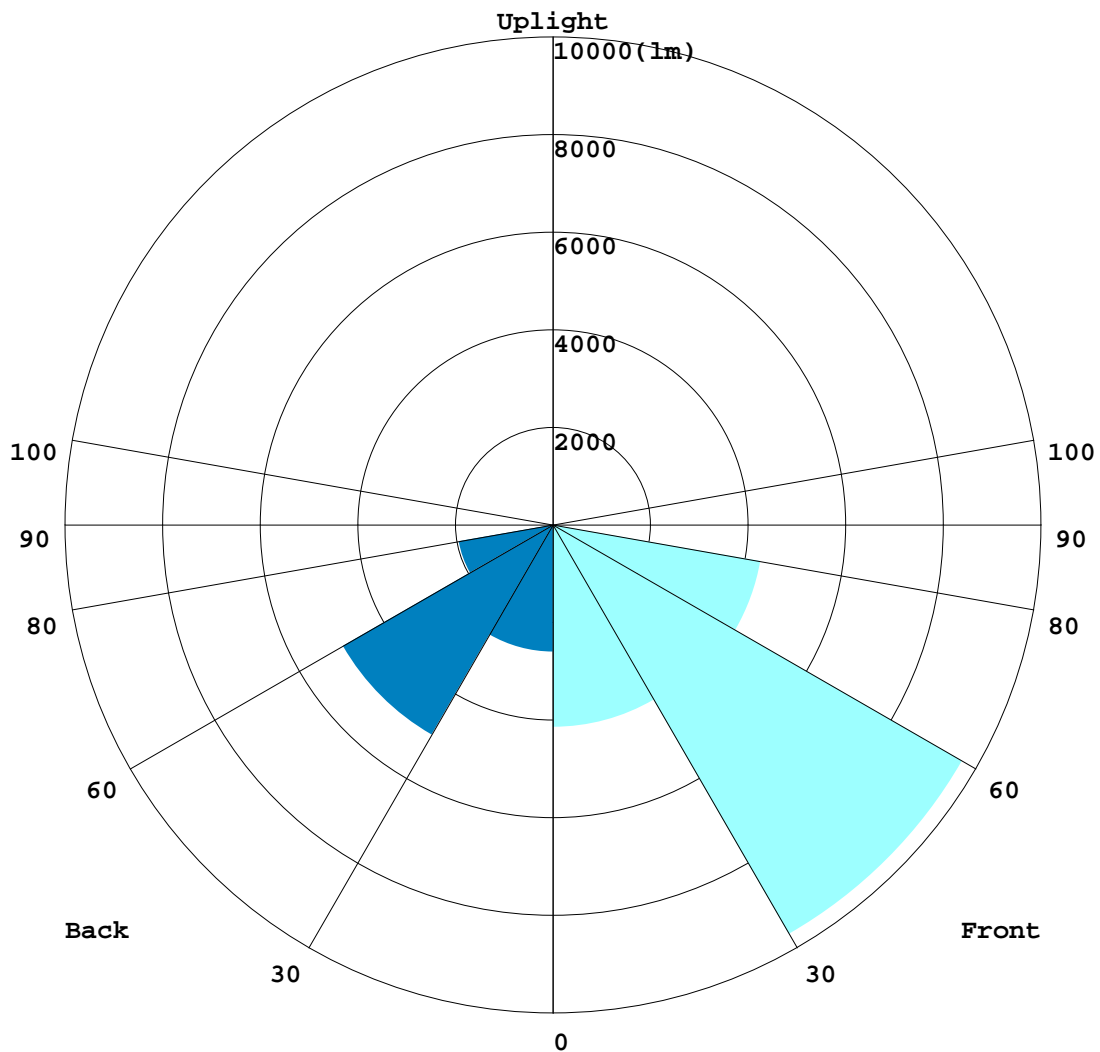
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Summer
 Test Date: 2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.0000]
 Remarks: L207-0810

LCS REPORT

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Summer
Test Date:2023-03-06

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks: L207-0810

BUG REPORT

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	4144.6	14.9
FM - Front-Medium(30-60)	9688.3	34.8
FH - Front-High(60-80)	4320.6	15.5
FVH - Front-Very High(80-90)	89.353	0.3
Total Forward Light	18243	65.5

BL - Back-Low(0-30)	2605.5	9.4
BM - Back-Medium(30-60)	4970.9	17.9
BH - Back-High(60-80)	1962.7	7.1
BVH - Back-Very High(80-90)	51.309	0.2
Total Back Light	9590.5	34.5

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B4-U0-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9590.5	0	9590.5
Street Side	18243	0	18243

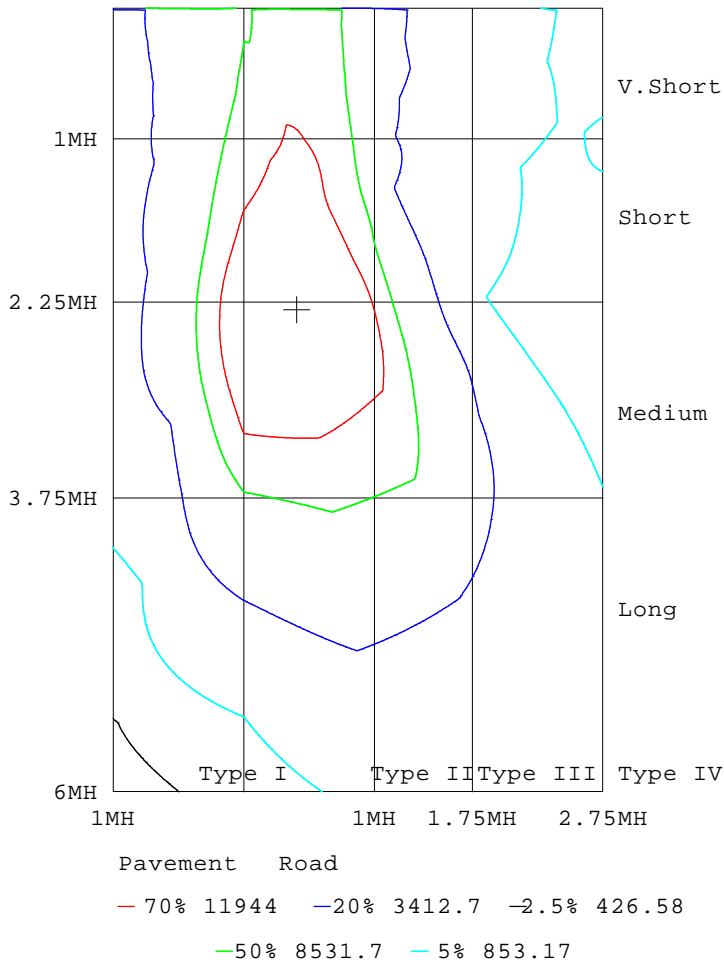
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810

ROAD ISOCANDELA REPORT

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHdi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
N/A.:	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Summer
 Test Date: 2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.0000]
 Remarks: L207-0810

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

Table--1

UNIT: x10cd

C(DEG) g (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813
5	812	825	836	846	855	864	871	876	879	881	881	878	873	867	860	851	840	829	816
10	813	839	862	882	902	921	936	949	956	960	959	952	942	928	910	892	871	848	823
15	817	856	892	929	964	990	1005	1015	1019	1023	1023	1022	1016	1002	976	941	905	870	833
20	822	873	926	983	1022	1042	1047	1050	1049	1051	1054	1060	1059	1056	1039	999	943	892	843
25	832	897	970	1036	1065	1074	1067	1057	1046	1047	1052	1068	1080	1090	1085	1059	993	921	859
30	840	928	1026	1084	1095	1085	1055	1025	1002	1001	1008	1036	1071	1104	1119	1110	1053	957	873
35	853	967	1076	1116	1102	1062	1001	948	912	909	916	958	1017	1083	1130	1147	1108	999	891
40	876	1027	1141	1141	1084	999	892	813	749	736	753	822	907	1021	1113	1172	1177	1067	924
45	907	1095	1191	1142	1037	866	707	580	514	503	517	589	722	888	1063	1181	1232	1140	964
50	958	1170	1239	1123	919	653	443	399	372	371	374	405	455	674	949	1161	1283	1224	1027
55	1036	1251	1247	1078	711	381	315	291	244	238	245	299	321	390	735	1117	1302	1317	1116
60	1147	1375	1259	940	374	255	187	146	122	122	124	148	193	266	393	983	1323	1453	1243
65	1331	1586	1387	709	180	142	103	109	93.7	97.0	95.3	105	106	149	194	764	1473	1693	1456
70	1264	1491	1381	421	89.6	82.4	70.5	81.7	67.3	73.9	69.1	84.0	72.4	85.0	97.4	471	1460	1617	1429
75	596	867	838	303	57.0	49.9	46.0	50.8	41.5	48.4	42.0	52.0	48.8	52.3	59.1	326	924	959	811
80	41.8	107	155	89.8	28.6	24.7	20.1	20.3	18.6	19.7	18.7	20.8	21.6	27.1	31.4	98.5	180	162	64.2
85	12.6	14.9	18.8	15.0	7.03	5.89	5.08	4.94	4.82	4.96	5.00	5.41	5.80	7.06	8.72	18.9	25.6	18.6	16.4
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.69V I:0.8001A P:171.60W PF:0.9763 Freq:49.99Hz UTHdi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27833.9x1 lm		
NAME: ARST50D8LED5050T2M-cutoff	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

Table--2

UNIT: x10cd

C(DEG) g (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813		
5	804	791	778	767	758	750	743	739	737	738	741	747	755	764	775	786	799		
10	796	769	745	722	701	682	667	658	655	657	663	675	692	713	735	760	786		
15	791	751	713	675	638	608	584	568	562	565	576	598	626	661	699	737	776		
20	789	737	681	623	566	525	499	489	486	488	495	515	551	604	662	717	769		
25	790	723	646	563	489	451	434	429	427	428	432	446	474	539	620	699	766		
30	789	708	604	494	426	401	393	389	387	388	392	398	417	468	571	677	761		
35	790	686	547	429	383	370	361	356	354	355	359	368	376	412	510	646	757		
40	797	664	490	382	350	336	328	327	327	327	327	332	346	369	448	614	756		
45	802	628	433	349	322	308	302	302	304	302	300	304	314	337	397	569	754		
50	805	580	375	315	292	285	282	279	276	278	281	283	286	303	346	512	746		
55	806	515	324	277	263	250	216	195	191	192	210	243	258	266	297	438	728		
60	796	433	273	239	215	165	124	108	122	106	118	153	202	228	249	357	692		
65	786	336	215	185	130	92.0	88.2	88.1	95.0	88.2	87.7	87.9	115	173	196	270	640		
70	598	193	132	105	69.2	64.3	108	59.5	61.6	58.0	111	62.2	63.9	92.7	118	154	411		
75	161	74.6	60.0	47.0	41.8	37.9	37.9	36.6	35.4	36.2	37.3	35.9	38.7	42.7	51.9	69.8	110		
80	39.3	28.7	37.2	23.6	21.3	20.0	19.6	19.6	16.6	19.1	19.1	18.5	18.9	20.7	29.7	29.0	29.2		
85	11.9	9.40	8.96	7.96	6.81	6.09	5.86	5.39	4.79	5.13	5.57	5.28	5.58	6.31	7.11	7.55	8.94		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Summer
 Test Date:2023-03-06

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.445
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks: L207-0810