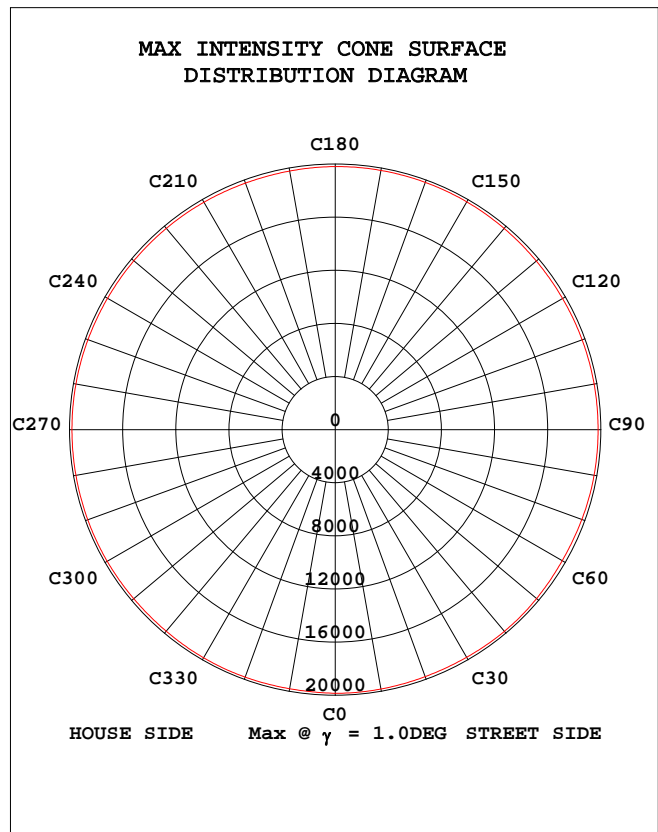
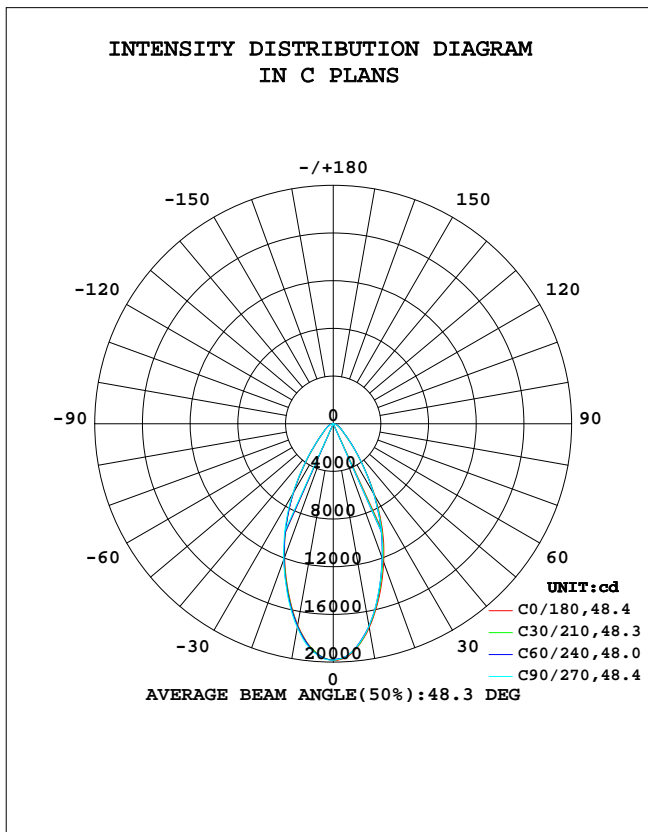


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm					
NAME: F-03MXLED150-64		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: KLED		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.35 lm/W			
MODEL	CREE XTE 40K T60	Imax(cd)	19852	η street_up(%)	0.1
NOMINAL POWER(W)	150	LOR(%)	100.0	η street_down(%)	50.2
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	15677	η house_up(%)	0.1
NOMINAL FLUX(lm)	15676.7	MAXIMUM @(C, γ)	0,1.0	η house_down(%)	49.6
LAMPS INSIDE	1	η up(%)	0.3	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.7	SLI	17.756



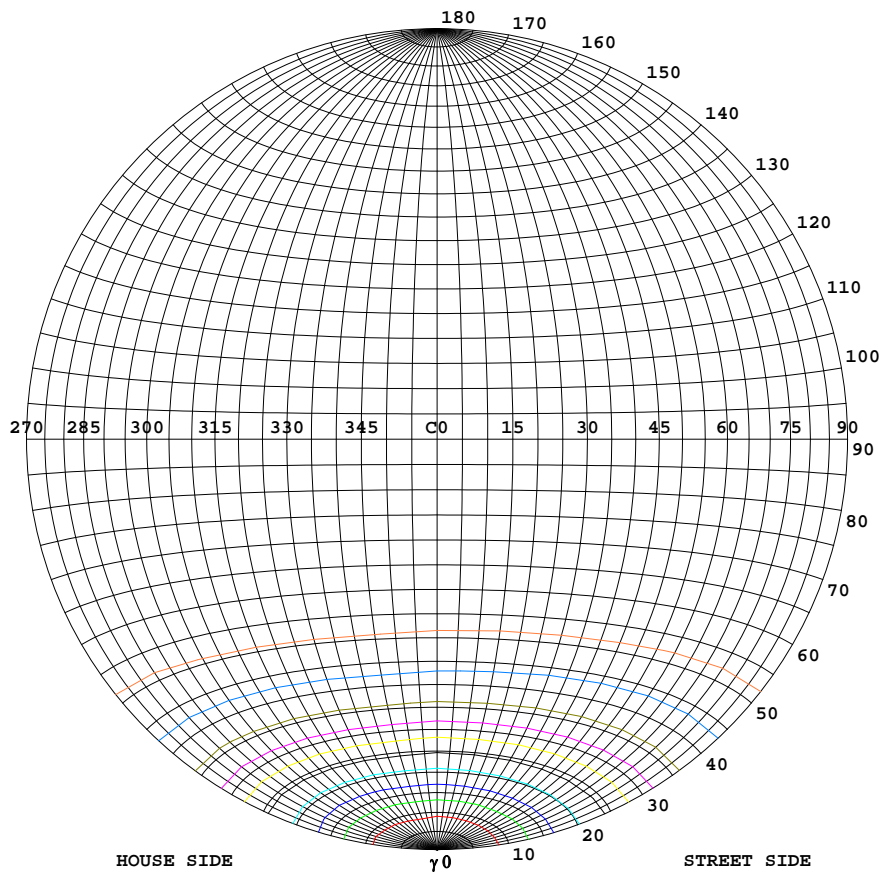
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

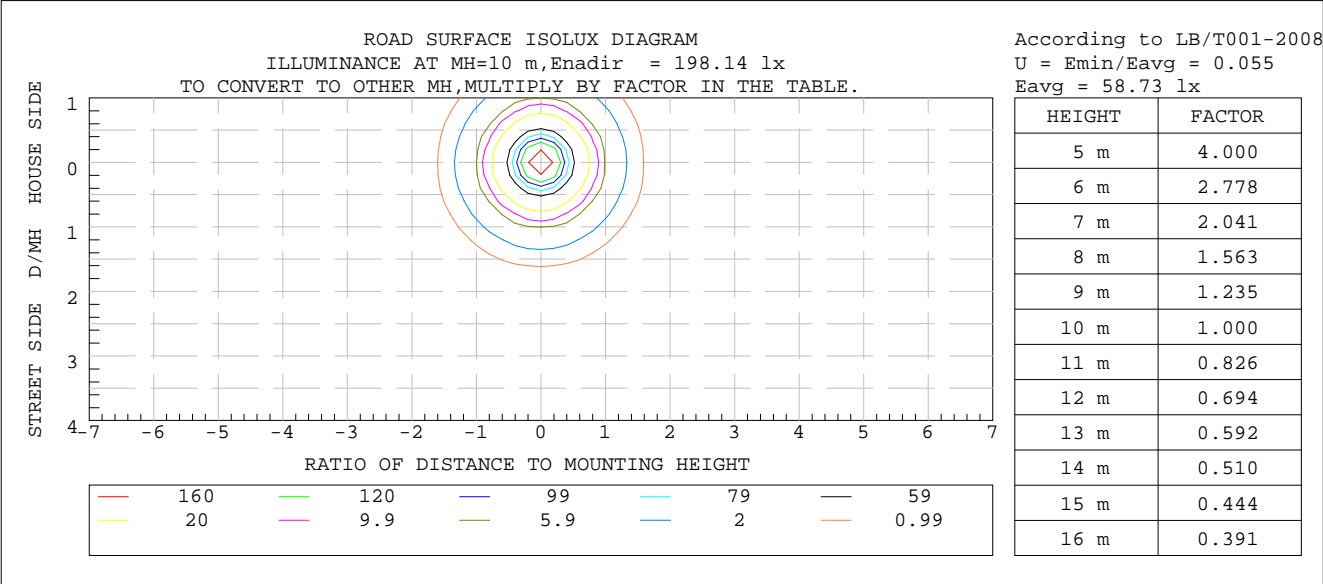
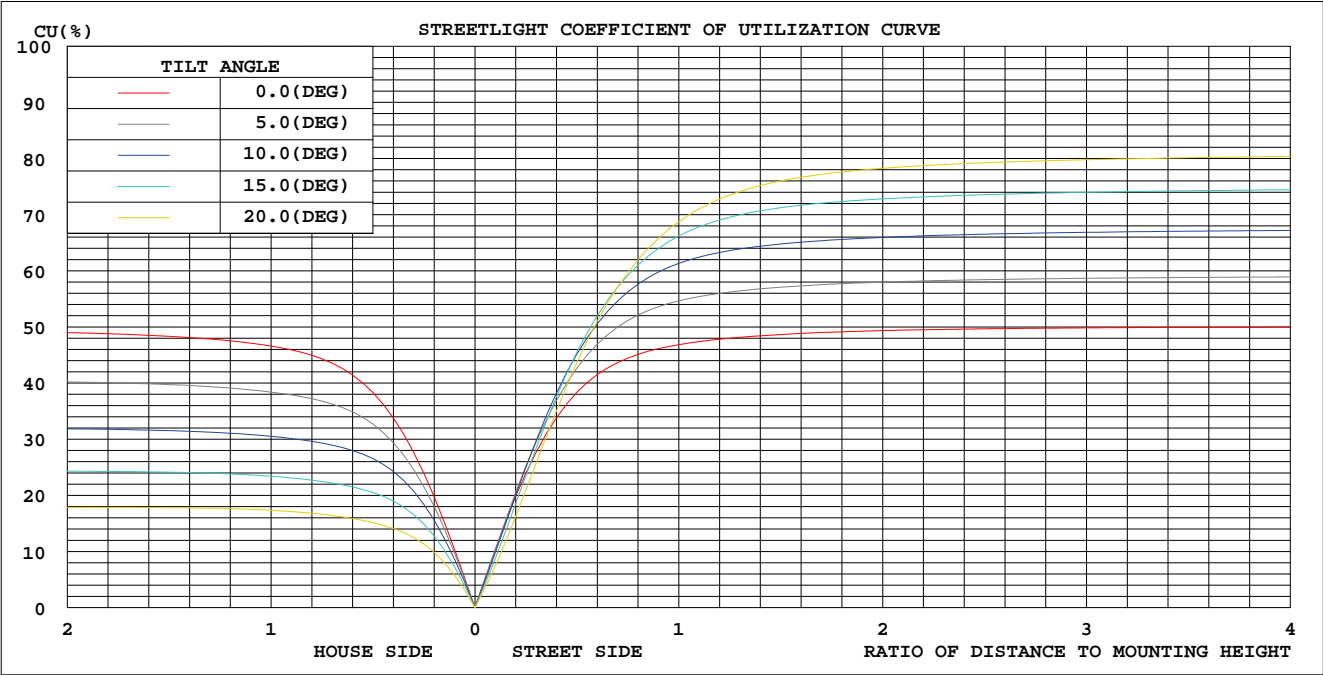
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:5.676cd/klm
 Max.At90:0.0671cd/klm
 Max.80-90:5.676cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	19852
90%	17866
80%	15881
70%	13896
60%	11911
50%	9926
40%	7941
30%	5955
20%	3970
10%	1985
5%	993

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: F-03MXLED150-64(CREE XTE 40K T60)

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1738	1720	1724	1727	1716	1723	1737	1732	0- 10	1769	1769	11.3,11.3
20	1239	1206	1204	1212	1195	1204	1216	1230	10- 20	4109	5878	37.5,37.5
30	695.6	681.1	680.2	659.0	664.3	665.1	681.7	674.5	20- 30	4296	10174	64.9,64.9
40	269.5	278.9	269.6	263.5	250.4	261.3	260.7	259.8	30- 40	2765	12939	82.5,82.5
50	109.0	111.1	112.4	107.9	104.8	105.7	108.3	104.3	40- 50	1300	14239	90.8,90.8
60	57.58	61.77	58.38	60.42	55.58	60.08	55.66	59.39	50- 60	729.0	14968	95.5,95.5
70	29.99	33.56	30.33	33.00	29.50	30.92	27.20	30.88	60- 70	446.9	15415	98.3,98.3
80	7.126	7.404	5.650	7.446	6.850	5.960	4.167	6.048	70- 80	198.1	15614	99.6,99.6
90	0.0683	0.0797	0.0851	0.0954	0.0629	0.0628	0.0629	0.0681	80- 90	19.03	15633	99.7,99.7
100	0.0681	0.0576	0.0628	0.0734	0.0840	0.0942	0.0890	0.0891	90-100	0.7909	15633	99.7,99.7
110	0.1102	0.1151	0.1046	0.1099	0.1418	0.1361	0.1311	0.1312	100-110	0.9901	15634	99.7,99.7
120	0.1991	0.1774	0.1569	0.1514	0.2465	0.2199	0.2097	0.2151	110-120	1.483	15636	99.7,99.7
130	0.4442	0.3767	0.4287	0.3661	0.5294	0.4553	0.4929	0.4517	120-130	2.680	15639	99.8,99.8
140	1.021	0.8771	0.9199	0.8225	1.170	0.9379	1.037	0.9720	130-140	5.299	15644	99.8,99.8
150	1.884	1.773	1.899	1.868	1.976	1.937	1.932	1.848	140-150	8.932	15653	99.8,99.8
160	3.017	2.776	2.745	2.788	3.078	2.895	2.775	2.848	150-160	10.80	15664	99.9,99.9
170	3.955	3.867	3.966	3.830	3.989	3.739	4.029	3.866	160-170	9.242	15673	100,100
180	4.313	4.155	4.423	4.230	4.345	3.967	4.267	4.183	170-180	3.923	15677	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

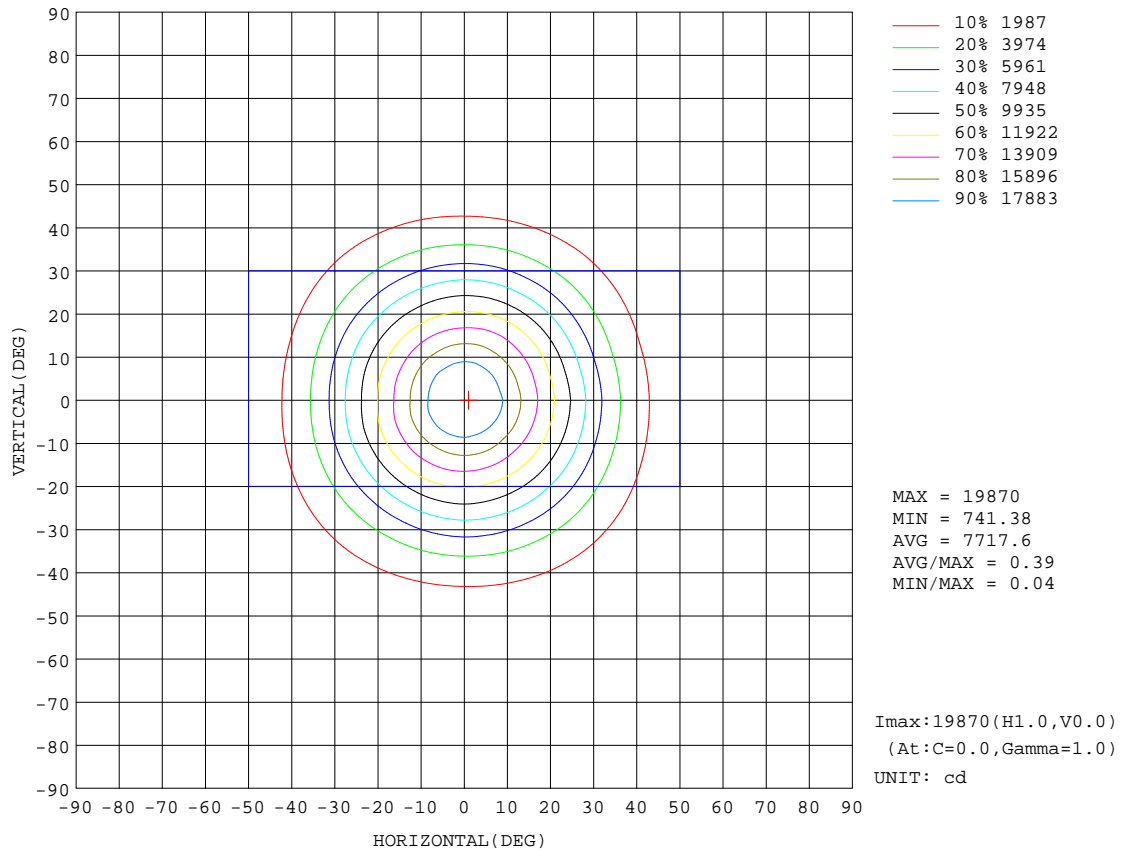
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

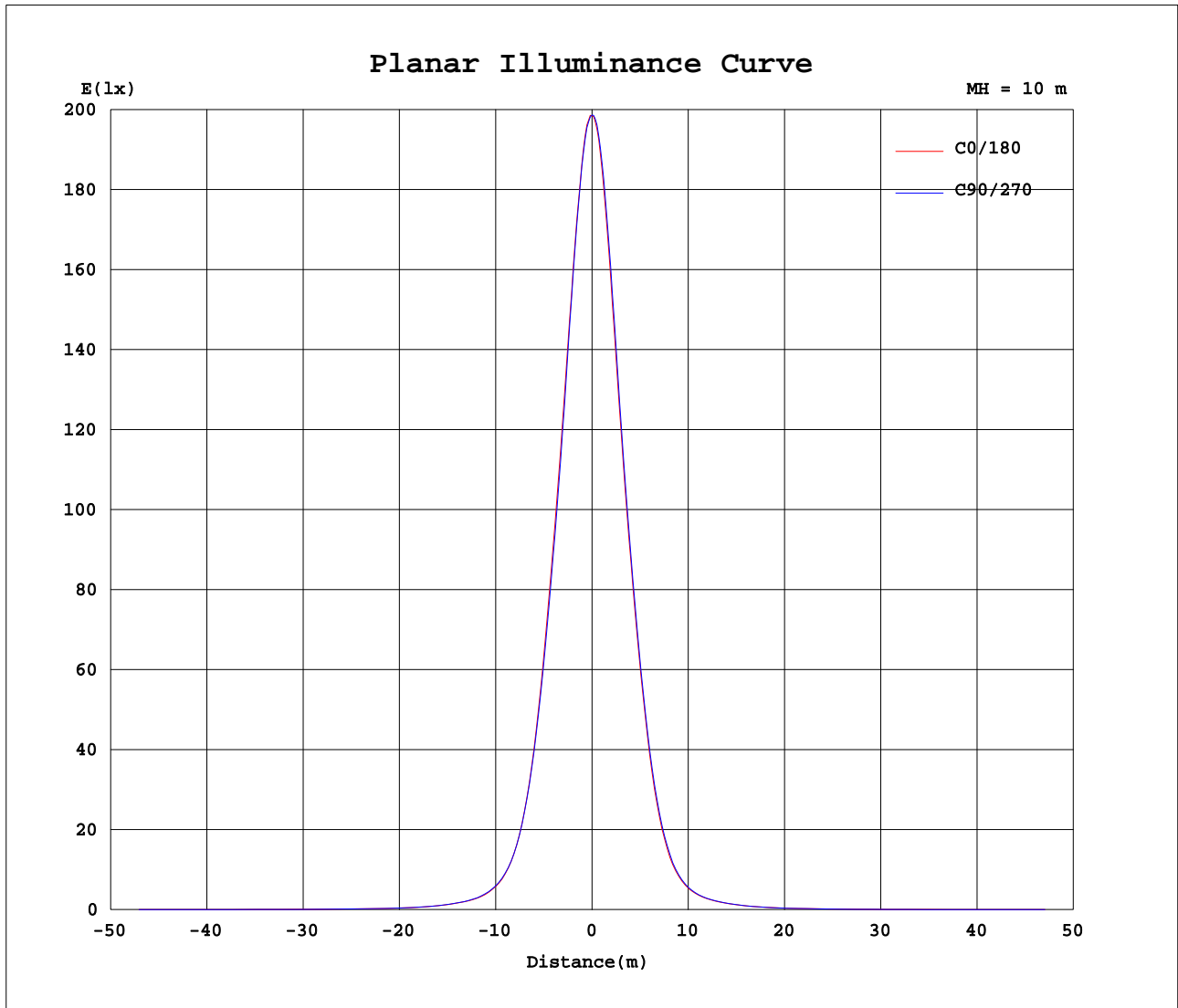
Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: F-03MXLED150-64 (CREE XTE 40K T60)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-07-07

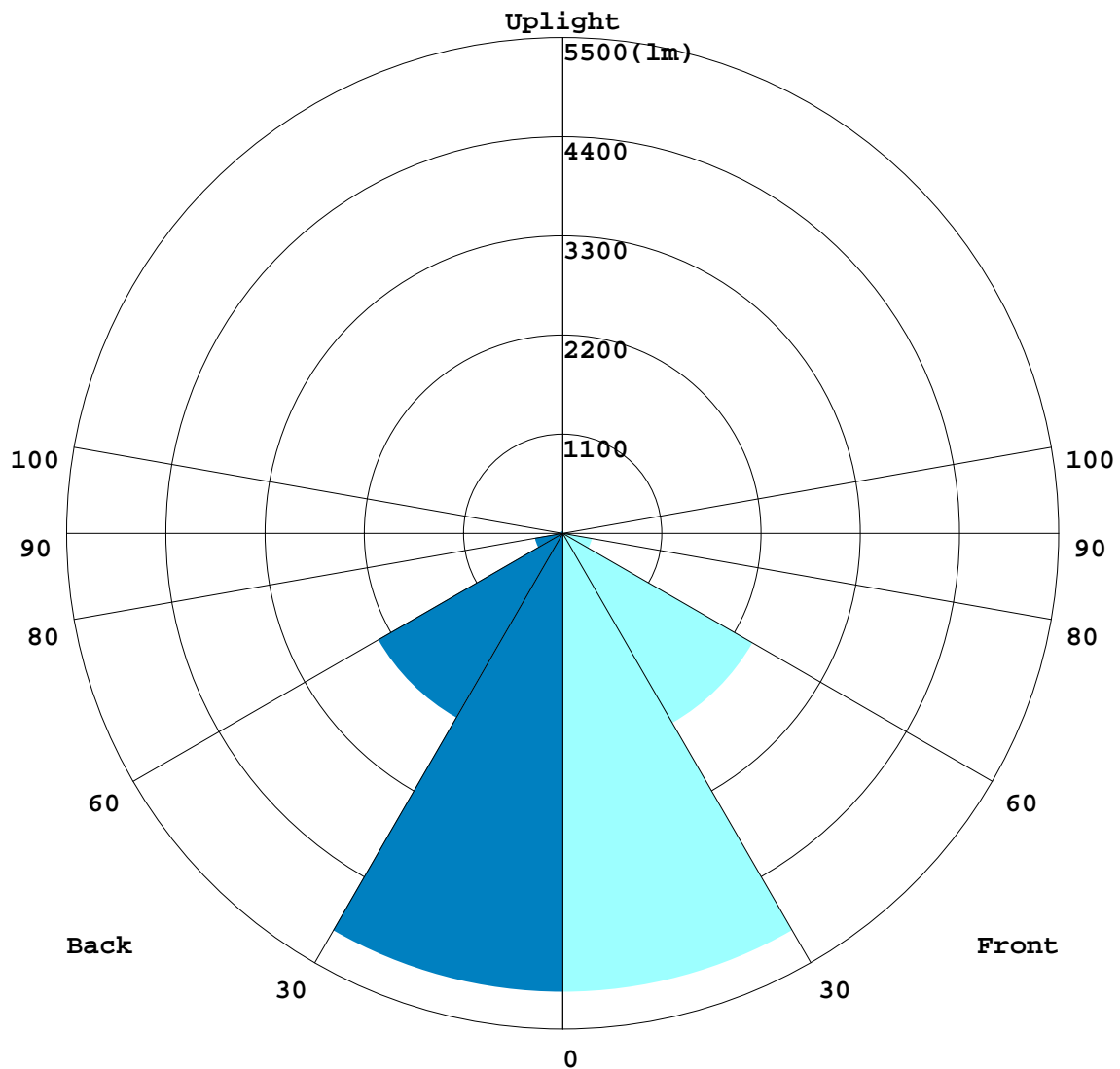
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	5086.5	32.4
FM - Front-Medium(30-60)	2433	15.5
FH - Front-High(60-80)	331.84	2.1
FVH - Front-Very High(80-90)	10.76	0.1
Total Forward Light	7883.4	50.3

BL - Back-Low(0-30)	5087.3	32.5
BM - Back-Medium(30-60)	2361.6	15.1
BH - Back-High(60-80)	313.24	2.0
BVH - Back-Very High(80-90)	8.2704	0.1
Total Back Light	7793.3	49.7

UL - Uplight-Low(90-100)	0.79092	0.0
UH - Uplight-High(100-180)	43.347	0.3
Total Up Light	44.137	0.3

BUG(Back,Up,Glare) Rating	B5-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	7770.4	22.886	7793.3
Street Side	7862.1	21.251	7883.4

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-07-07

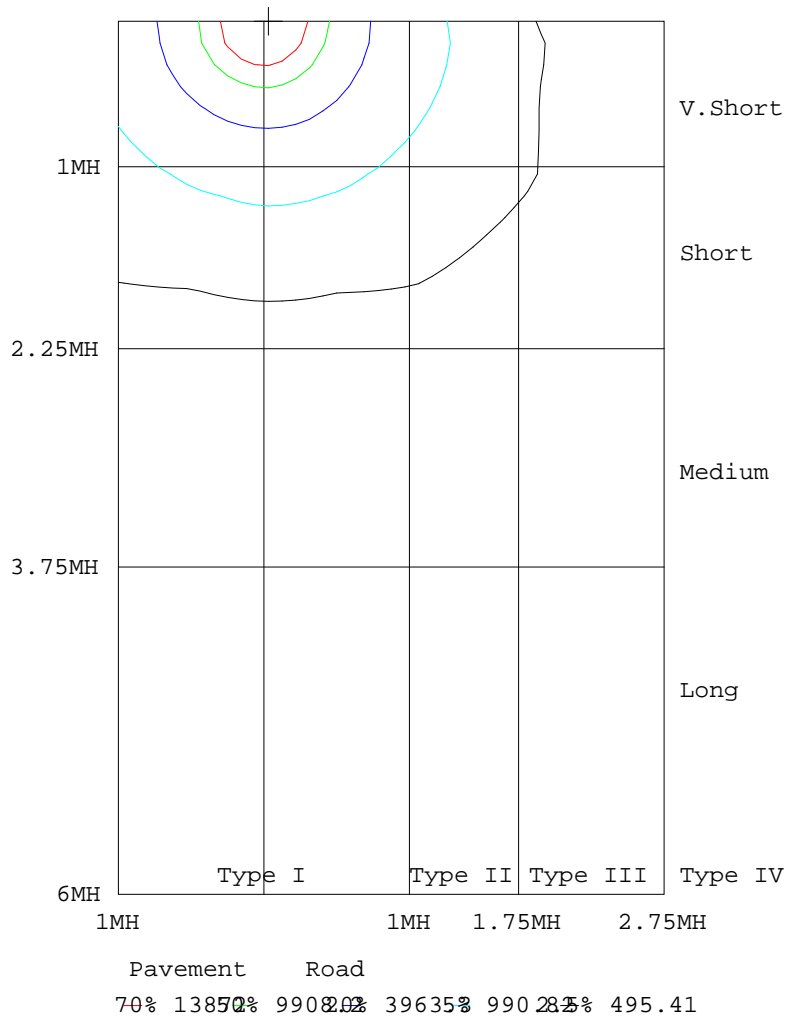
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-07-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm																			
NAME: F-03MXLED150-64										TYPE:					WEIGHT:				
SPEC.:										DIM.:					SERIAL No.:				
MFR.: KLED										SUR.:					Shielding Angle:				

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983
5	1924	1917	1916	1914	1912	1911	1913	1919	1917	1919	1920	1921	1909	1909	1906	1914	1919	1917	1922
10	1738	1739	1730	1720	1724	1731	1724	1727	1728	1727	1736	1736	1716	1720	1724	1723	1727	1739	1737
15	1496	1490	1478	1468	1470	1471	1467	1475	1471	1477	1482	1482	1458	1465	1467	1465	1476	1485	1485
20	1239	1229	1217	1206	1201	1201	1204	1206	1209	1212	1218	1219	1195	1203	1203	1204	1208	1215	1216
25	973	965	957	943	939	941	944	939	932	933	943	947	930	936	938	931	936	945	950
30	696	690	688	681	680	681	680	672	660	659	668	673	664	669	671	665	669	678	682
35	448	449	450	450	448	449	444	439	428	427	430	431	423	426	430	432	434	441	440
40	269	272	277	279	278	277	270	268	264	264	263	260	250	251	257	261	263	265	261
45	165	165	170	172	172	172	168	168	166	165	164	161	152	152	155	158	160	161	158
50	109	110	110	111	113	114	112	112	110	108	107	106	105	105	105	106	108	109	108
55	81.4	82.0	83.0	82.5	83.8	84.0	83.1	82.5	81.8	80.6	81.2	80.0	78.9	79.1	80.2	79.4	80.7	80.6	80.6
60	57.6	58.5	62.4	61.8	63.9	60.4	58.4	59.4	62.2	60.4	61.4	57.9	55.6	56.0	60.9	60.1	61.5	56.8	55.7
65	43.1	42.7	48.2	48.7	50.1	43.4	42.8	42.9	48.1	48.0	48.7	42.5	41.8	41.3	46.7	46.9	48.0	40.8	40.5
70	30.0	30.4	35.9	33.6	38.2	30.9	30.3	30.5	36.2	33.0	37.7	30.7	29.5	29.2	34.9	30.9	35.8	28.1	27.2
75	17.4	19.1	22.0	19.3	21.8	18.0	15.8	17.5	21.3	19.1	22.0	20.0	17.0	18.2	19.7	17.3	18.2	15.6	13.4
80	7.13	8.33	8.12	7.40	7.45	6.94	5.65	6.80	7.41	7.45	8.16	8.90	6.85	7.76	7.06	5.96	5.72	5.19	4.17
85	0.85	0.98	1.09	0.97	0.77	0.56	0.52	0.63	0.87	1.07	1.21	1.17	0.95	0.90	0.82	0.63	0.45	0.36	0.35
90	0.07	0.07	0.08	0.08	0.07	0.08	0.09	0.09	0.11	0.10	0.08	0.08	0.06	0.06	0.07	0.06	0.07	0.07	0.06
95	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.08	0.08
100	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.08	0.09
105	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.08	0.07	0.11	0.11	0.10	0.12	0.11	0.11	0.10
110	0.11	0.12	0.13	0.12	0.12	0.10	0.10	0.12	0.10	0.11	0.12	0.12	0.14	0.14	0.14	0.14	0.14	0.13	0.13
115	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.18	0.18	0.17	0.17	0.17	0.17	0.16
120	0.20	0.20	0.19	0.18	0.18	0.14	0.16	0.15	0.15	0.15	0.17	0.18	0.25	0.23	0.23	0.22	0.22	0.22	0.21
125	0.27	0.28	0.28	0.28	0.24	0.27	0.27	0.27	0.22	0.24	0.28	0.27	0.35	0.34	0.33	0.30	0.32	0.33	0.34
130	0.44	0.43	0.41	0.38	0.36	0.39	0.43	0.39	0.43	0.37	0.40	0.44	0.53	0.52	0.49	0.46	0.53	0.47	0.49
135	0.69	0.65	0.62	0.59	0.65	0.60	0.65	0.62	0.69	0.56	0.62	0.68	0.81	0.75	0.71	0.65	0.78	0.69	0.73
140	1.02	0.99	0.94	0.88	1.03	0.97	0.92	0.89	0.99	0.82	0.95	1.00	1.17	1.07	1.03	0.94	1.09	1.02	1.04
145	1.44	1.45	1.33	1.28	1.42	1.44	1.45	1.38	1.40	1.31	1.36	1.44	1.60	1.51	1.43	1.41	1.50	1.41	1.51
150	1.88	1.95	1.76	1.77	1.86	1.86	1.90	1.80	1.81	1.87	1.80	1.94	1.98	2.00	1.85	1.94	1.95	1.83	1.93
155	2.48	2.46	2.22	2.26	2.30	2.28	2.32	2.20	2.29	2.39	2.28	2.46	2.56	2.52	2.31	2.41	2.37	2.24	2.33
160	3.02	2.90	2.70	2.78	2.81	2.70	2.75	2.64	2.74	2.79	2.79	2.88	3.08	2.94	2.70	2.89	2.84	2.73	2.78
165	3.45	3.35	3.20	3.33	3.34	3.04	3.20	3.09	3.25	3.28	3.23	3.42	3.53	3.51	3.18	3.29	3.23	3.15	3.29
170	3.95	3.92	3.66	3.87	3.94	3.98	3.97	3.90	3.86	3.83	3.72	3.97	3.99	3.98	3.84	3.74	3.83	3.97	4.03
175	4.16	4.27	3.93	4.13	4.14	4.22	4.38	4.32	4.15	4.12	4.00	4.27	4.34	4.33	4.22	4.01	4.10	4.23	4.33
180	4.31	4.26	3.96	4.16	4.13	4.35	4.42	4.37	4.18	4.23	4.08	4.34	4.34	4.32	4.25	3.97	4.15	4.15	4.27

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.11V I:0.6696A P:147.41W PF:0.9568 Freq:50.01Hz Lamp Flux:15676.7x1 lm		
NAME: F-03MXLED150-64	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1983	1983	1983	1983	1983														
5	1929	1918	1920	1919	1914														
10	1748	1734	1732	1736	1731														
15	1500	1498	1493	1495	1487														
20	1231	1234	1230	1235	1229														
25	956	952	949	951	950														
30	683	673	674	673	672														
35	441	435	434	432	429														
40	263	261	260	258	256														
45	158	156	156	156	155														
50	108	105	104	105	105														
55	80.2	79.4	78.6	79.9	79.2														
60	56.7	60.5	59.4	60.9	57.1														
65	41.0	46.3	46.3	47.6	42.0														
70	28.2	34.1	30.9	35.6	29.7														
75	15.4	18.2	17.3	19.9	18.6														
80	5.16	5.80	6.05	6.98	7.84														
85	0.36	0.45	0.65	0.79	0.76														
90	0.06	0.06	0.07	0.07	0.07														
95	0.07	0.07	0.07	0.07	0.07														
100	0.08	0.08	0.09	0.09	0.09														
105	0.11	0.10	0.12	0.12	0.12														
110	0.13	0.13	0.13	0.14	0.14														
115	0.17	0.17	0.17	0.18	0.17														
120	0.20	0.22	0.22	0.22	0.23														
125	0.32	0.30	0.31	0.33	0.34														
130	0.47	0.41	0.45	0.49	0.51														
135	0.71	0.72	0.68	0.72	0.76														
140	1.07	1.14	0.97	1.02	1.10														
145	1.52	1.56	1.35	1.47	1.56														
150	1.93	2.01	1.85	1.94	2.07														
155	2.32	2.35	2.34	2.34	2.54														
160	2.81	2.75	2.85	2.72	3.00														
165	3.31	3.25	3.22	3.25	3.40														
170	4.06	4.15	3.87	3.87	3.80														
175	4.46	4.36	4.20	4.21	4.11														
180	4.42	4.34	4.18	4.22	4.03														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-07-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: F-03MXLED150-64(CREE XTE 40K T60)