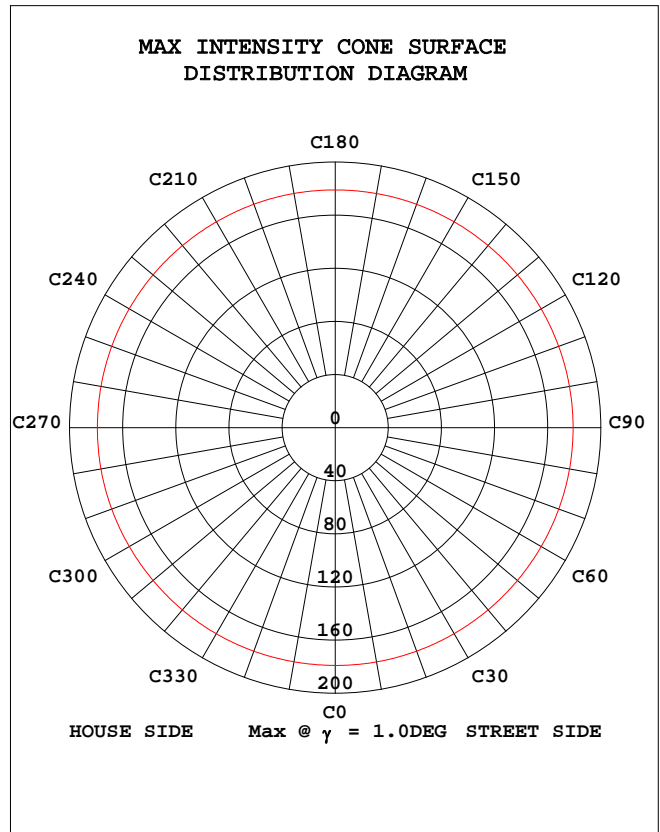
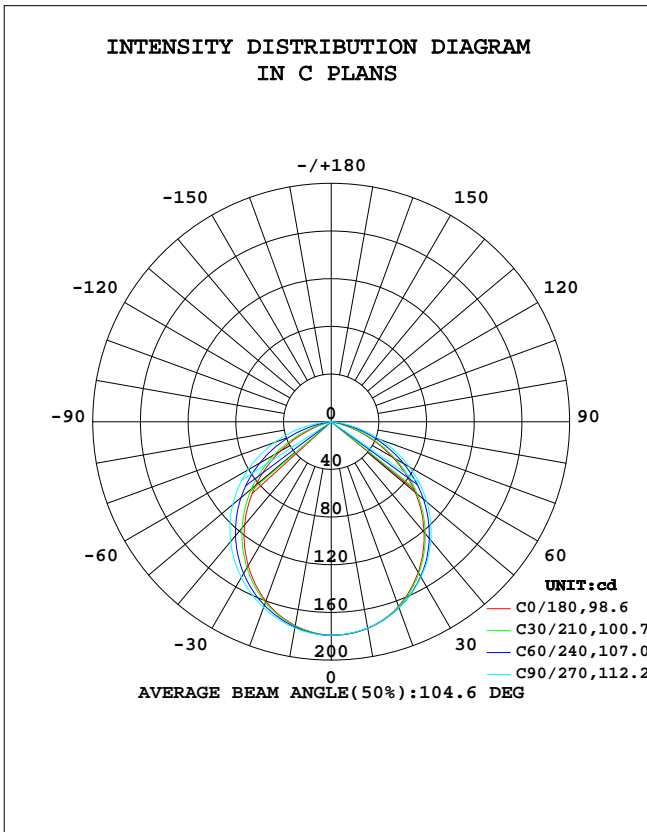


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.67 lm/W			
MODEL	SMD2835 30K	I <sub>max</sub> (cd)	179.2	η street_up(%)	0.0
NOMINAL POWER(W)	9	LOR(%)	100.0	η street_down(%)	49.6
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	449.7	η house_up(%)	0.0
NOMINAL FLUX(lm)	3.7474	MAXIMUM @(C,γ )	330,1.0	η house_down(%)	50.3
LAMPS INSIDE	120	η up(%)	0.1	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.9	SLI	11.355



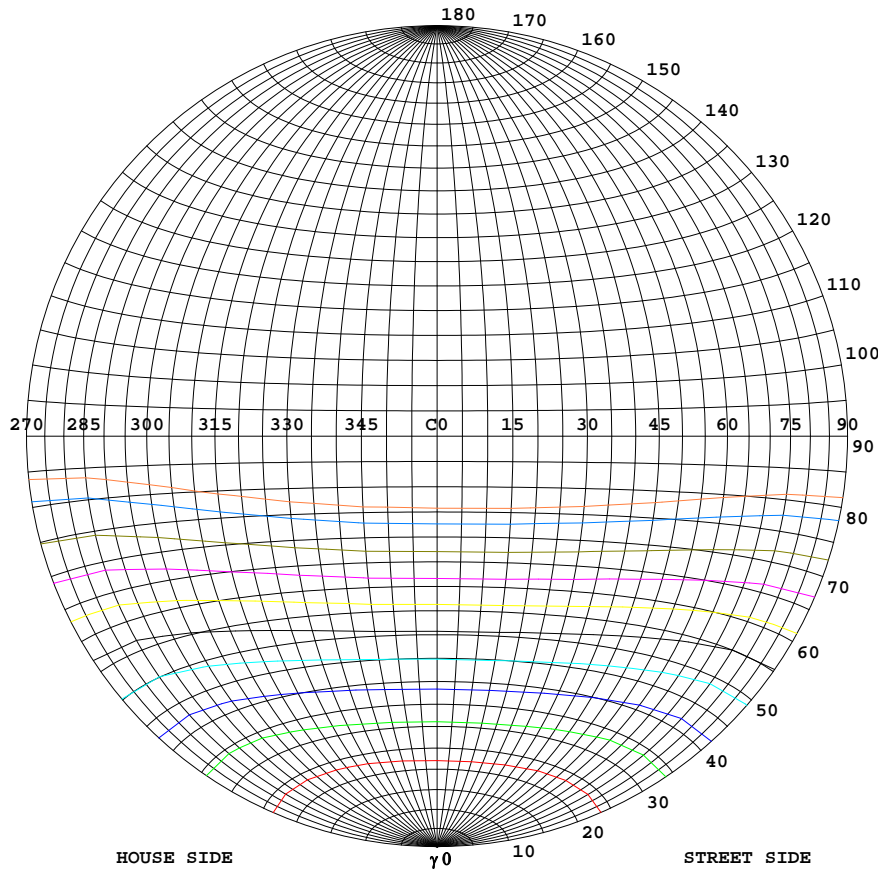
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2022-08-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.922m [K=1.0000]  
Remarks: B-140LED9-48(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

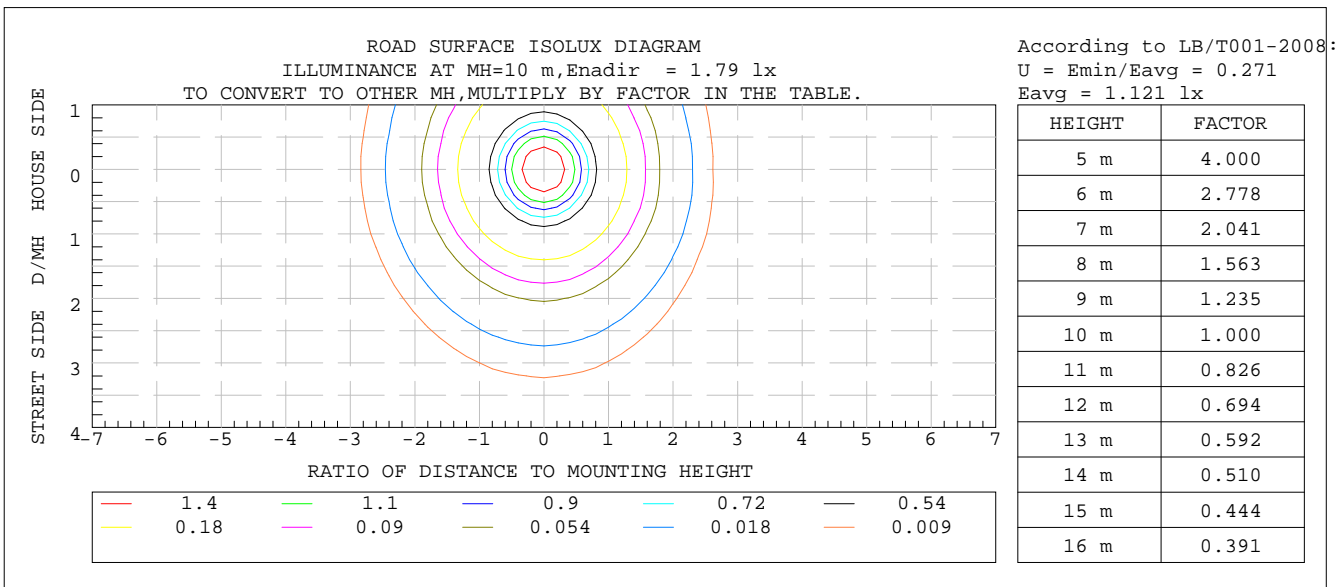
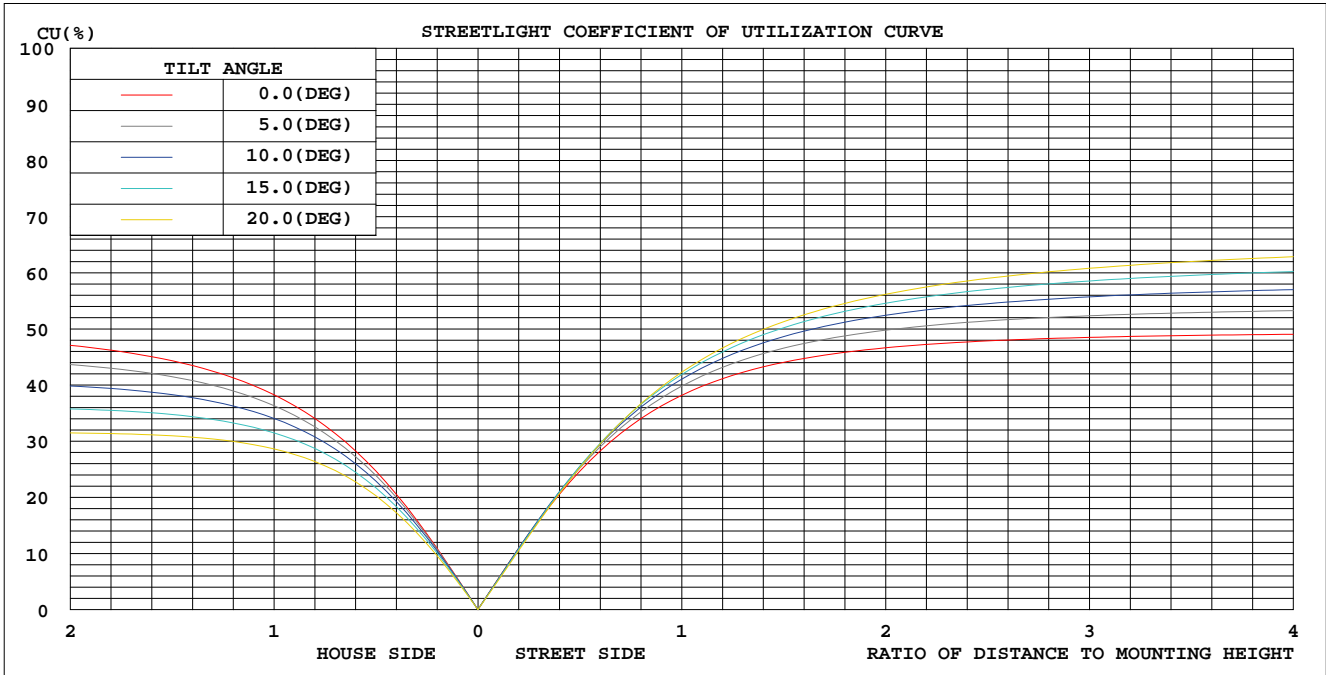
IES:Type II - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:44.82cd/klm  
 Max.At90:1.579cd/klm  
 Max.80-90:44.82cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	179
90%	161
80%	143
70%	125
60%	108
50%	90
40%	72
30%	54
20%	36
10%	18
5%	9

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

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: 2022-08-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 38.0%  
Test Distance: 1.922m [K=1.0000]  
Remarks: B-140LED9-48(SMD2835 30K)

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	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	175.8	175.9	175.7	174.6	173.7	174.5	175.7	176.0	0- 10	16.91	16.91	3.76,3.76
20	164.8	165.7	166.0	163.2	160.3	162.6	165.9	165.7	10- 20	48.11	65.02	14.5,14.5
30	145.9	148.4	150.5	144.9	139.4	144.0	150.9	148.9	20- 30	71.93	137.0	30.5,30.5
40	121.2	125.2	130.0	121.0	113.2	120.4	131.3	126.5	30- 40	84.83	221.8	49.3,49.3
50	91.90	97.29	104.7	92.55	82.55	92.49	107.9	99.96	40- 50	85.07	306.8	68.2,68.2
60	59.37	65.68	75.51	60.82	49.29	61.34	80.69	69.68	50- 60	72.35	379.2	84.3,84.3
70	26.23	32.23	43.76	27.86	16.80	28.89	50.63	37.14	60- 70	48.49	427.7	95.1,95.1
80	1.444	4.627	12.59	2.447	1.034	2.870	20.15	7.433	70- 80	19.38	447.1	99.4,99.4
90	0.2748	0.1498	0.0213	0.0310	0.0364	0.4610	0.5429	0.6575	80- 90	2.311	449.4	99.9,99.9
100	0.0400	0.0187	0.0175	0.0187	0.0202	0.1101	0.0143	0.1373	90-100	0.1310	449.5	100,100
110	0.0250	0.0193	0.0196	0.0201	0.0195	0.0519	0.0168	0.0598	100-110	0.0393	449.5	100,100
120	0.0243	0.0232	0.0253	0.0254	0.0221	0.0404	0.0216	0.0433	110-120	0.0290	449.6	100,100
130	0.0268	0.0264	0.0289	0.0288	0.0280	0.0368	0.0271	0.0381	120-130	0.0264	449.6	100,100
140	0.0303	0.0307	0.0333	0.0315	0.0355	0.0414	0.0349	0.0397	130-140	0.0252	449.6	100,100
150	0.0341	0.0348	0.0367	0.0372	0.0453	0.0469	0.0440	0.0458	140-150	0.0240	449.7	100,100
160	0.0376	0.0391	0.0403	0.0406	0.0501	0.0496	0.0483	0.0486	150-160	0.0196	449.7	100,100
170	0.0398	0.0403	0.0410	0.0408	0.0507	0.0480	0.0478	0.0479	160-170	0.0127	449.7	100,100
180	0.0275	0.0267	0.0255	0.0258	0.0298	0.0283	0.0290	0.0278	170-180	0.0038	449.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

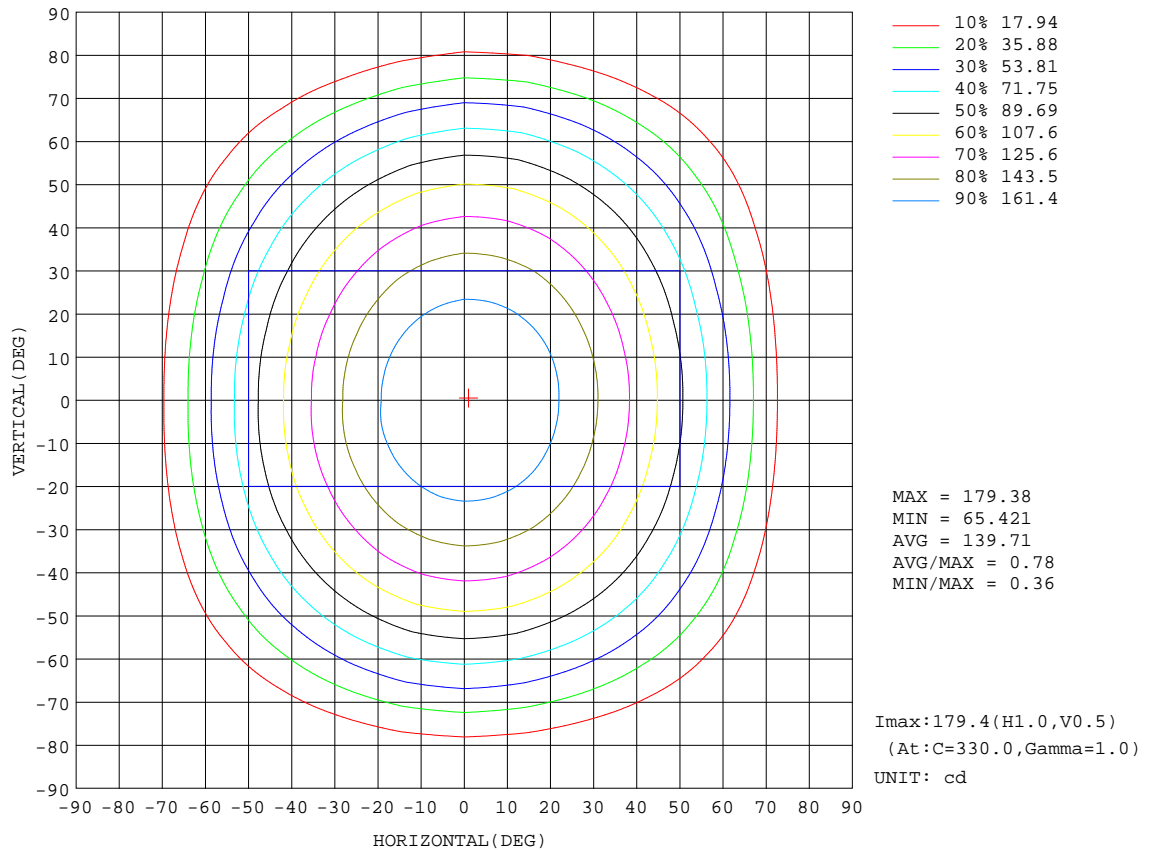
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

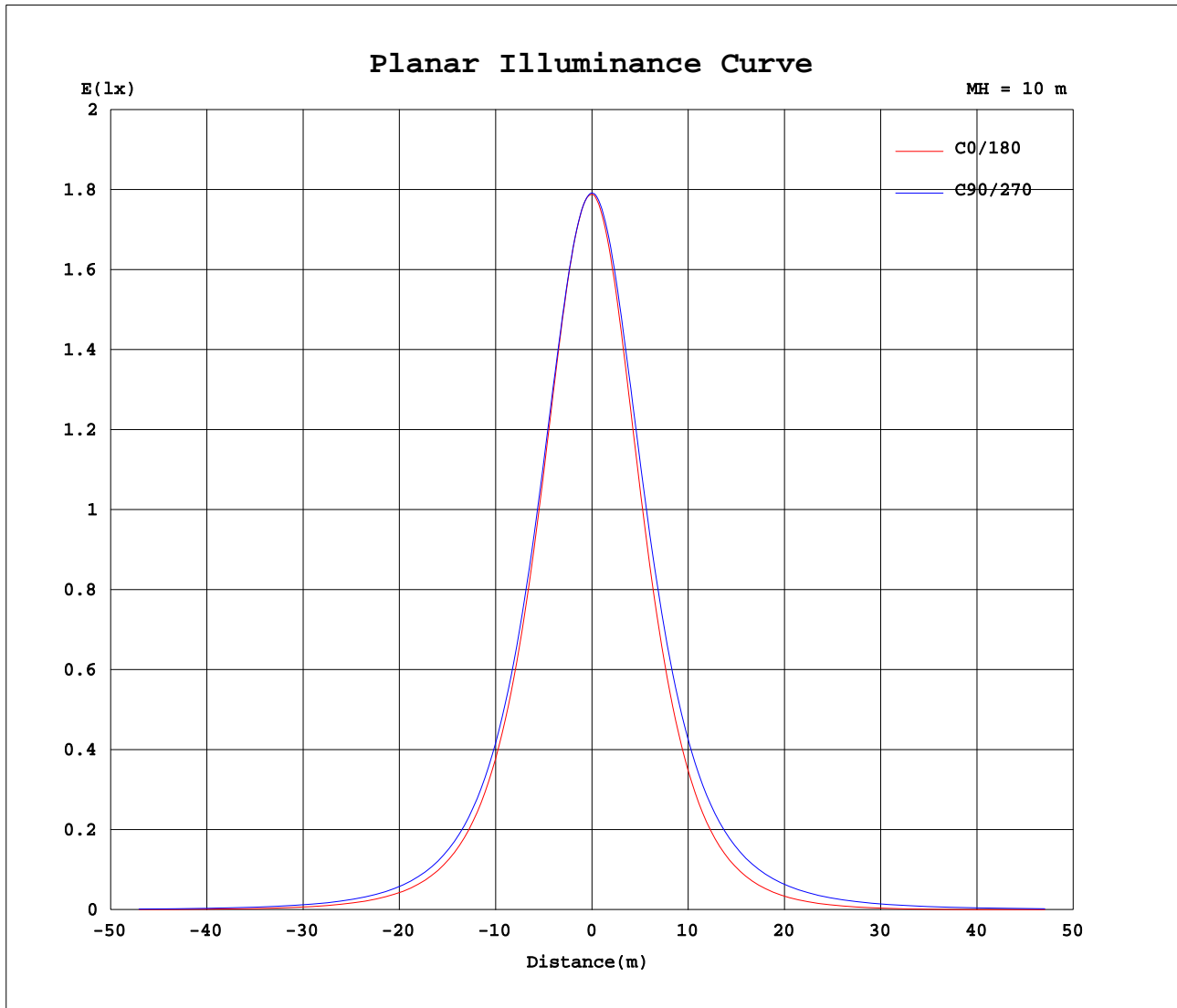
Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 13.9DEG  
 Operators: CS01  
 Test Date: 2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 38.0%  
 Test Distance: 1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2022-08-29

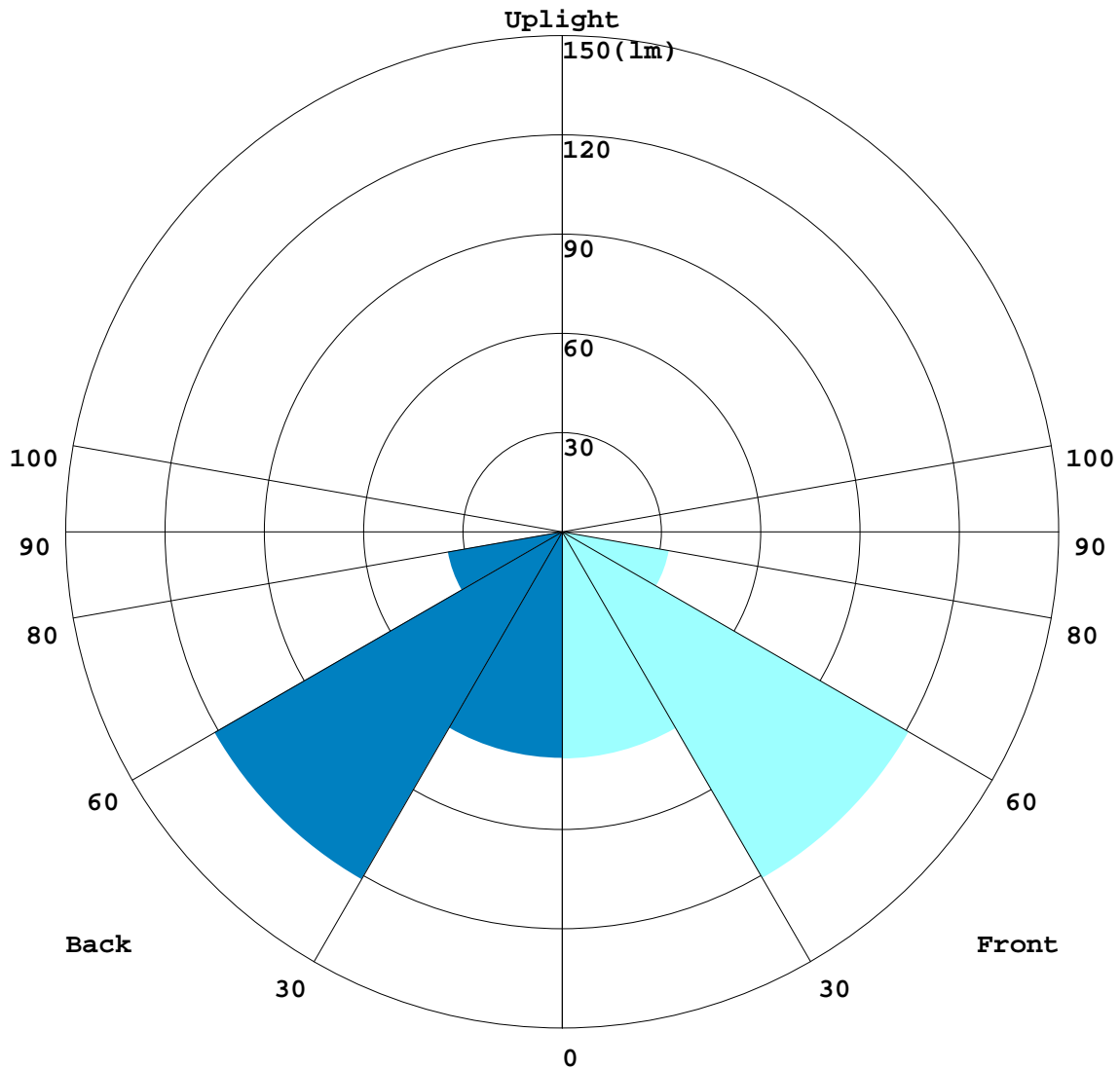
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:1.922m [K=1.0000]  
Remarks: B-140LED9-48(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	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:2022-08-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

---

**BUG REPORT**

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	68.589	15.3
FM - Front-Medium(30-60)	120.95	26.9
FH - Front-High(60-80)	32.772	7.3
FVH - Front-Very High(80-90)	0.79766	0.2
<b>Total Forward Light</b>	<b>223.19</b>	<b>49.6</b>

BL - Back-Low(0-30)	68.363	15.2
BM - Back-Medium(30-60)	121.3	27.0
BH - Back-High(60-80)	35.098	7.8
BVH - Back-Very High(80-90)	1.5131	0.3
<b>Total Back Light</b>	<b>226.5</b>	<b>50.4</b>

UL - Uplight-Low(90-100)	0.13099	0.0
UH - Uplight-High(100-180)	0.18015	0.0
<b>Total Up Light</b>	<b>0.31114</b>	<b>0.1</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B0-U1-G0</b>
----------------------------------	-----------------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	226.27	0.2239	226.5
Street Side	223.1	0.08724	223.19

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

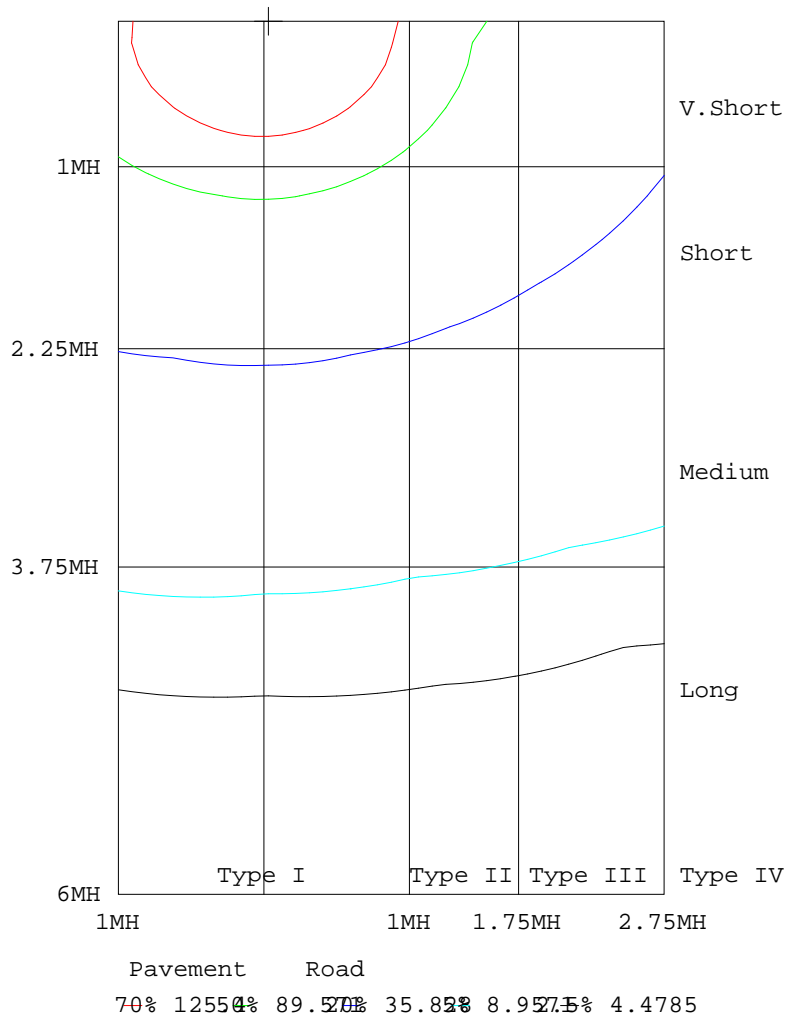


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	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:2022-08-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179	179
5	178	178	178	178	178	178	178	178	178	178	178	178	177	178	178	178	178	178	178
10	176	176	176	176	176	176	176	176	175	175	174	174	174	174	174	174	175	175	176
15	171	171	171	172	172	172	172	171	170	170	169	168	168	168	169	169	170	171	172
20	165	165	165	166	166	166	166	166	164	163	162	161	160	161	161	163	164	165	166
25	156	156	157	158	159	159	159	158	157	155	153	152	151	151	152	154	156	158	159
30	146	146	147	148	150	151	151	150	148	145	142	141	139	140	141	144	147	149	151
35	134	134	135	137	140	141	141	140	137	133	130	128	127	128	129	133	137	140	142
40	121	121	123	125	128	130	130	129	125	121	117	115	113	114	116	120	125	129	131
45	107	107	109	112	115	117	118	116	112	107	103	100	98.3	99.3	102	107	112	117	120
50	91.9	92.1	94.0	97.3	101	104	105	103	98.0	92.6	87.8	84.5	82.6	83.7	87.1	92.5	98.8	105	108
55	76.0	76.1	78.3	81.9	85.9	89.6	90.6	88.5	83.1	77.0	71.7	68.2	66.1	67.3	71.2	77.3	84.3	91.0	94.7
60	59.4	59.5	61.8	65.7	70.1	74.1	75.5	73.3	67.3	60.8	55.1	51.5	49.3	50.7	54.8	61.3	69.1	76.4	80.7
65	42.7	42.9	45.1	48.9	53.7	58.1	59.8	57.2	51.1	44.2	38.5	34.9	32.6	34.1	38.3	45.0	53.3	61.2	65.9
70	26.2	26.4	28.5	32.2	37.2	41.8	43.8	41.1	34.7	27.9	22.5	19.0	16.8	18.3	22.4	28.9	37.2	45.6	50.6
75	10.9	11.1	13.1	16.7	21.2	25.6	27.5	25.0	19.0	13.1	8.33	5.64	4.14	5.17	8.25	14.2	21.5	29.9	35.1
80	1.44	1.44	2.12	4.63	7.72	11.1	12.6	10.6	6.24	2.45	1.03	1.04	1.03	1.18	1.37	2.87	8.11	15.2	20.2
85	0.84	0.77	0.72	0.68	0.63	1.39	1.32	1.01	0.47	0.49	0.48	0.47	0.46	0.62	0.81	1.01	1.20	3.26	5.92
90	0.27	0.21	0.18	0.15	0.10	0.04	0.02	0.03	0.04	0.03	0.03	0.02	0.04	0.18	0.32	0.46	0.56	0.57	0.54
95	0.06	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.11	0.18	0.22	0.21	0.14	0.01
100	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.09	0.11	0.09	0.05	0.01
105	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.06	0.07	0.06	0.04	0.02
110	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.05	0.05	0.05	0.03	0.02
115	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.04	0.03	0.02
120	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.03	0.02
125	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.04	0.04	0.03	0.02
130	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03
135	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.03
140	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03
145	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
150	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04
155	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
160	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
165	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
170	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
175	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
180	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.13V I:0.0490A P:7.6652W PF:0.7101 Freq:50.01Hz Lamp Flux:3.7474x120 lm		
NAME: B-140LED9-48	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	179	179	179	179	179														
5	178	178	178	178	178														
10	176	176	176	176	176														
15	172	172	172	171	171														
20	166	166	166	165	165														
25	159	159	158	157	156														
30	151	150	149	147	146														
35	142	141	138	136	134														
40	131	130	127	124	122														
45	120	118	114	110	108														
50	108	104	100.0	95.7	92.6														
55	94.4	90.4	85.3	80.2	76.7														
60	80.2	75.5	69.7	64.1	60.1														
65	65.1	60.0	53.5	47.6	43.4														
70	49.5	43.9	37.1	31.1	27.0														
75	33.8	27.9	21.2	15.6	11.9														
80	18.7	13.3	7.43	3.48	1.69														
85	5.16	2.49	1.33	1.14	0.96														
90	0.61	0.71	0.66	0.54	0.39														
95	0.15	0.30	0.33	0.27	0.17														
100	0.06	0.10	0.14	0.13	0.09														
105	0.03	0.07	0.08	0.08	0.06														
110	0.04	0.05	0.06	0.05	0.04														
115	0.04	0.04	0.05	0.04	0.03														
120	0.04	0.03	0.04	0.04	0.03														
125	0.04	0.04	0.04	0.04	0.03														
130	0.04	0.04	0.04	0.03	0.03														
135	0.04	0.04	0.04	0.04	0.03														
140	0.04	0.04	0.04	0.04	0.03														
145	0.04	0.04	0.04	0.04	0.04														
150	0.05	0.05	0.05	0.04	0.04														
155	0.05	0.05	0.05	0.05	0.04														
160	0.05	0.05	0.05	0.05	0.05														
165	0.05	0.05	0.05	0.05	0.05														
170	0.05	0.05	0.05	0.05	0.05														
175	0.04	0.04	0.04	0.04	0.04														
180	0.03	0.03	0.03	0.03	0.03														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2022-08-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:1.922m [K=1.0000]  
 Remarks: B-140LED9-48(SMD2835 30K)