

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	289.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	154.2V x 180.0H
	At 50% of Imax	109.3V x 144.3H
	At 90% of Imax	48.4V x 62.0H

Beam Flux	Total	995.1 lumens per klm.
	To 10% of Imax	991.8 lumens per klm.
	To 50% of Imax	784.6 lumens per klm.
	To 90% of Imax	197.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.5 %

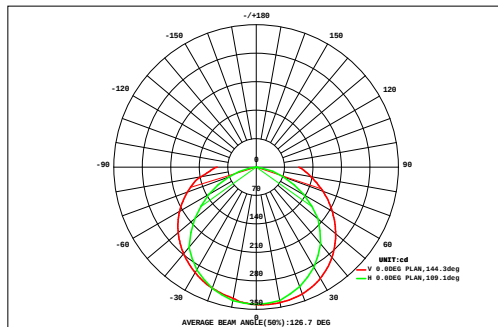
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.1V I:0.1509A P:32.34W PF:0.9690 Lamp Flux:1171.44x1 lm		
NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:36.23lm/W	
MODEL LLS-OP-D50-L12-RDM	Imax(cd)	339.0	
NOMINAL POWER(W)	32	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1170
NOMINAL FLUX(lm)	1171.44	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1171
TEST VOLTAGE(V)	221.1	θ @50%(H,V)	144,109DEG

AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
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	0.00
80	0.34	1.11	1.93	2.70	3.13	3.07	2.62	1.91	1.30	1.33	1.96	2.65	3.06	3.09	2.67	1.92	1.11	0.35	36.2	35.6
70	0.29	0.99	1.81	2.67	3.30	3.56	3.53	3.31	3.12	3.15	3.38	3.57	3.54	3.18	2.54	1.76	0.97	0.30	45.0	45.0
60	0.30	1.06	1.99	3.03	3.95	4.57	4.89	5.02	5.05	5.09	5.12	4.96	4.52	3.78	2.88	1.92	1.03	0.30	59.5	59.5
50	0.32	1.13	2.17	3.36	4.51	5.45	6.13	6.55	6.77	6.81	6.64	6.18	5.40	4.37	3.23	2.09	1.09	0.31	72.5	72.5
40	0.33	1.19	2.32	3.65	4.99	6.14	7.06	7.68	8.04	8.08	7.81	7.19	6.18	4.91	3.55	2.24	1.14	0.32	82.8	82.8
30	0.33	1.23	2.44	3.87	5.35	6.69	7.79	8.57	9.03	9.10	8.76	7.99	6.82	5.35	3.80	2.37	1.19	0.33	91.0	91.0
20	0.34	1.26	2.53	4.03	5.61	7.08	8.33	9.22	9.75	9.84	9.44	8.57	7.26	5.66	3.97	2.44	1.21	0.33	96.9	96.9
10	0.33	1.28	2.58	4.12	5.73	7.25	8.58	9.53	10.1	10.3	9.82	8.89	7.52	5.84	4.09	2.51	1.24	0.33	100	100
0	0.31	1.27	2.58	4.11	5.71	7.22	8.52	9.46	10.1	10.2	9.83	8.91	7.54	5.86	4.11	2.52	1.24	0.33	99.9	99.9
-10	0.26	1.21	2.53	4.06	5.64	7.12	8.38	9.28	9.82	9.93	9.53	8.63	7.32	5.70	4.01	2.47	1.22	0.29	97.4	97.4
-20	0.19	1.05	2.38	3.84	5.34	6.71	7.87	8.70	9.19	9.30	8.98	8.20	6.97	5.45	3.85	2.39	1.12	0.24	91.7	91.7
-30	0.20	0.80	2.13	3.56	4.93	6.17	7.18	7.91	8.31	8.41	8.15	7.49	6.41	5.06	3.62	2.23	0.97	0.26	83.8	83.8
-40	0.22	0.73	1.72	3.22	4.42	5.49	6.26	6.74	6.97	7.02	6.86	6.42	5.62	4.54	3.31	1.96	0.93	0.27	72.7	72.7
-50	0.24	0.73	1.47	2.71	3.88	4.65	5.01	5.09	5.07	5.07	5.07	4.95	4.60	3.92	2.93	1.73	0.92	0.27	58.3	58.3
-60	0.24	0.73	1.28	2.24	3.26	3.63	3.62	3.43	3.21	3.18	3.36	3.51	3.48	3.19	2.47	1.59	0.88	0.26	43.6	43.6
-70	0.24	0.69	1.13	1.85	2.57	2.66	2.40	1.88	1.44	1.39	1.77	2.23	2.51	2.50	2.03	1.44	0.81	0.25	29.8	29.4
-80	0.12	0.32	0.52	0.79	1.04	1.02	0.79	0.44	0.13	0.11	0.37	0.71	0.94	1.02	0.87	0.65	0.37	0.12	10.3	9.62
-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	0.00
Φ t	4.59	16.8	33.5	53.8	73.4	88.5	99.0	105	107	108	107	101	89.7	73.4	53.9	34.2	17.4	4.85	1171	---
Φ a	4.59	16.8	33.5	53.8	73.4	88.5	99.0	104	107	108	107	101	89.7	73.4	53.9	34.2	17.4	4.85	---	1170

one-half-peak spread: U:54.8,D:55.0 , L:78.3,R:66.8

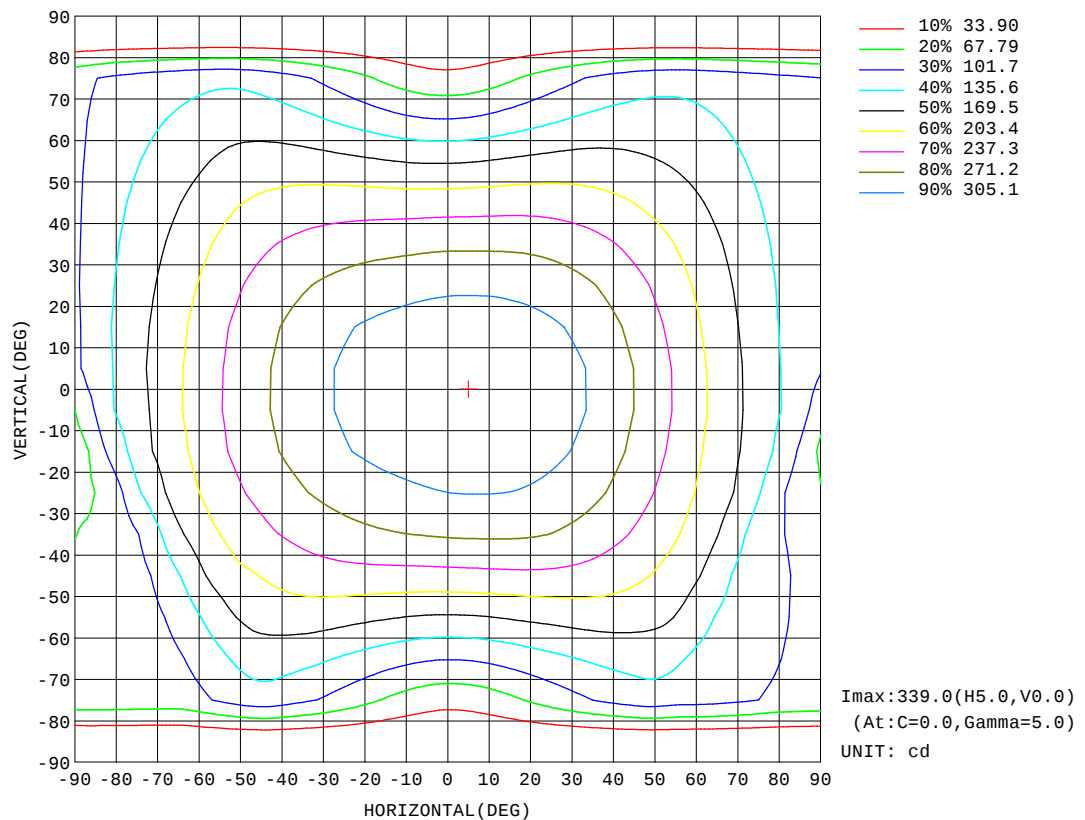
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.1V I:0.1509A P:32.34W PF:0.9690 Lamp Flux:1171.44x1 lm		
NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

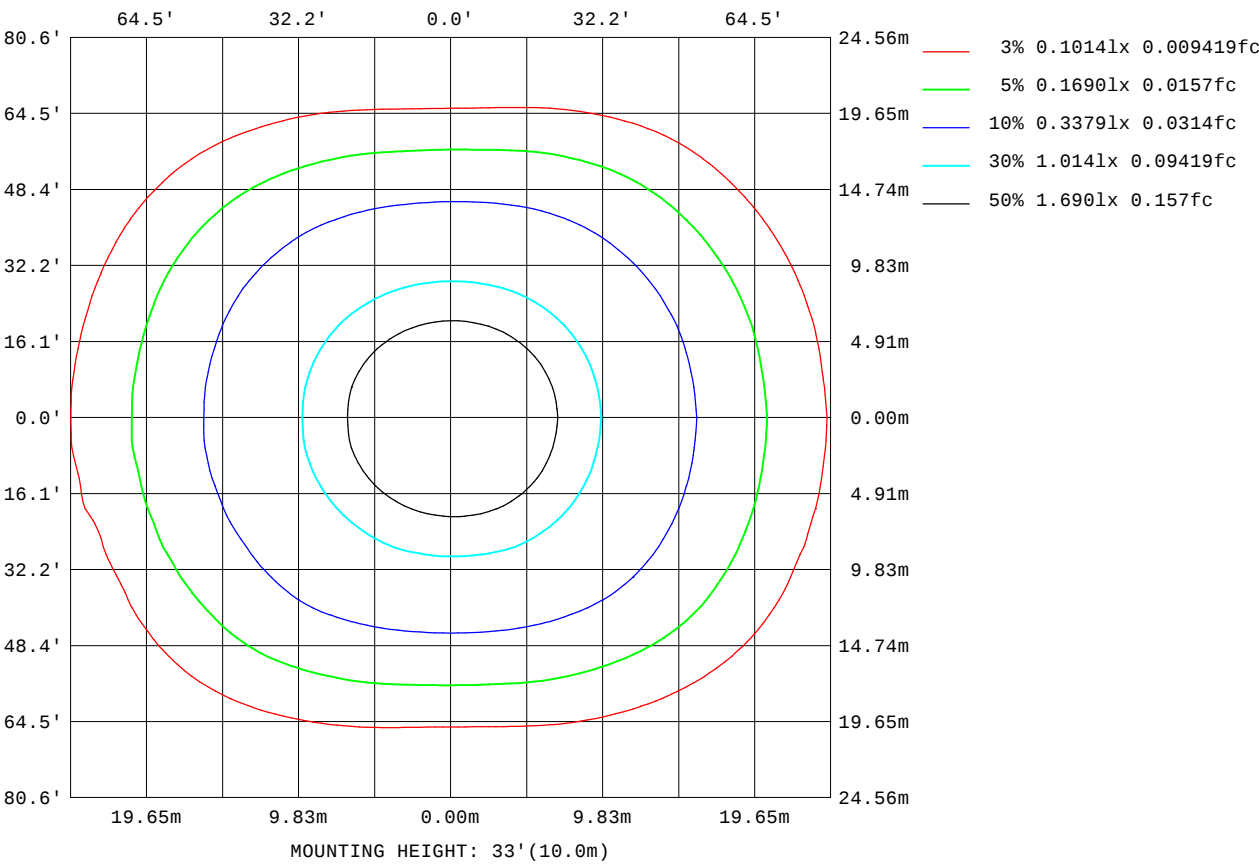


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 28.0DEG
Operators: QC1
Test Date: 2024-08-26

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity: 83%
Test Distance: 8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:221.1V I:0.1509A P:32.34W PF:0.9690 Lamp Flux:1171.44x1 lm		
NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

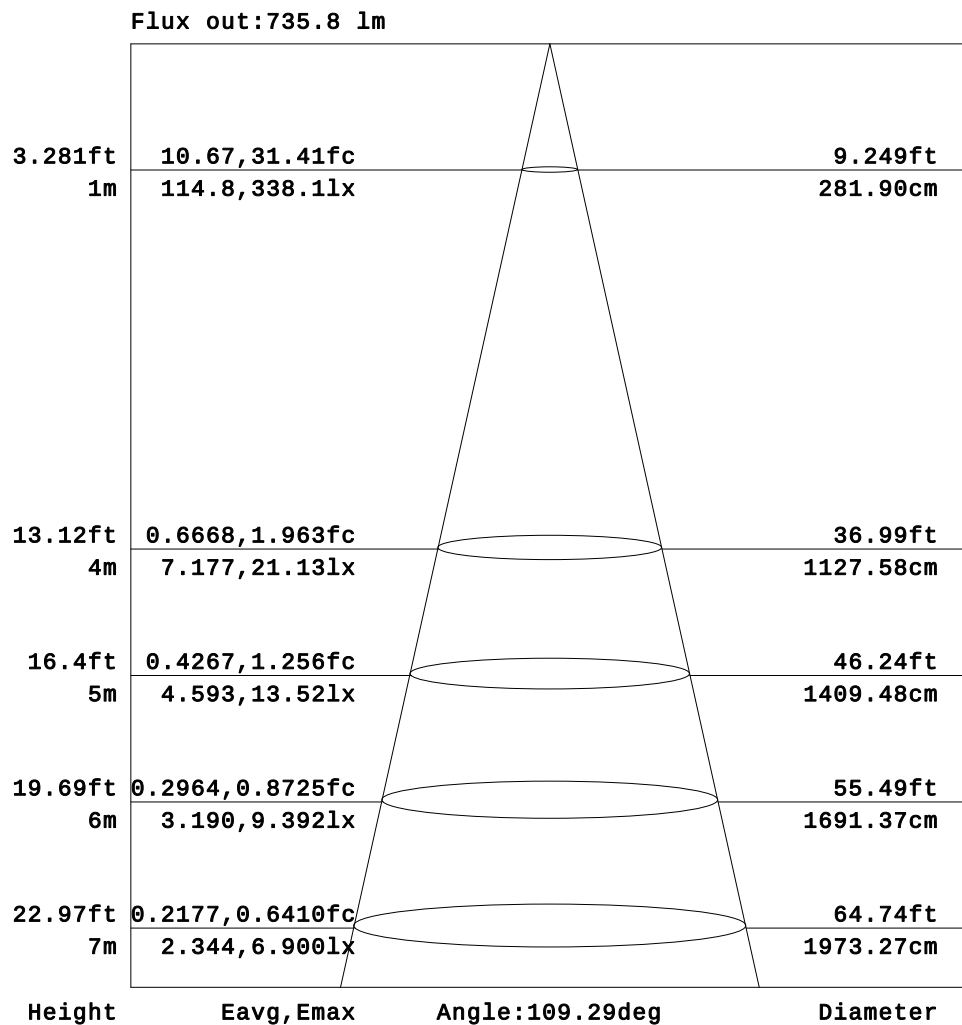


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.1V I:0.1509A P:32.34W PF:0.9690 Lamp Flux:1171.44x1 lm		
NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

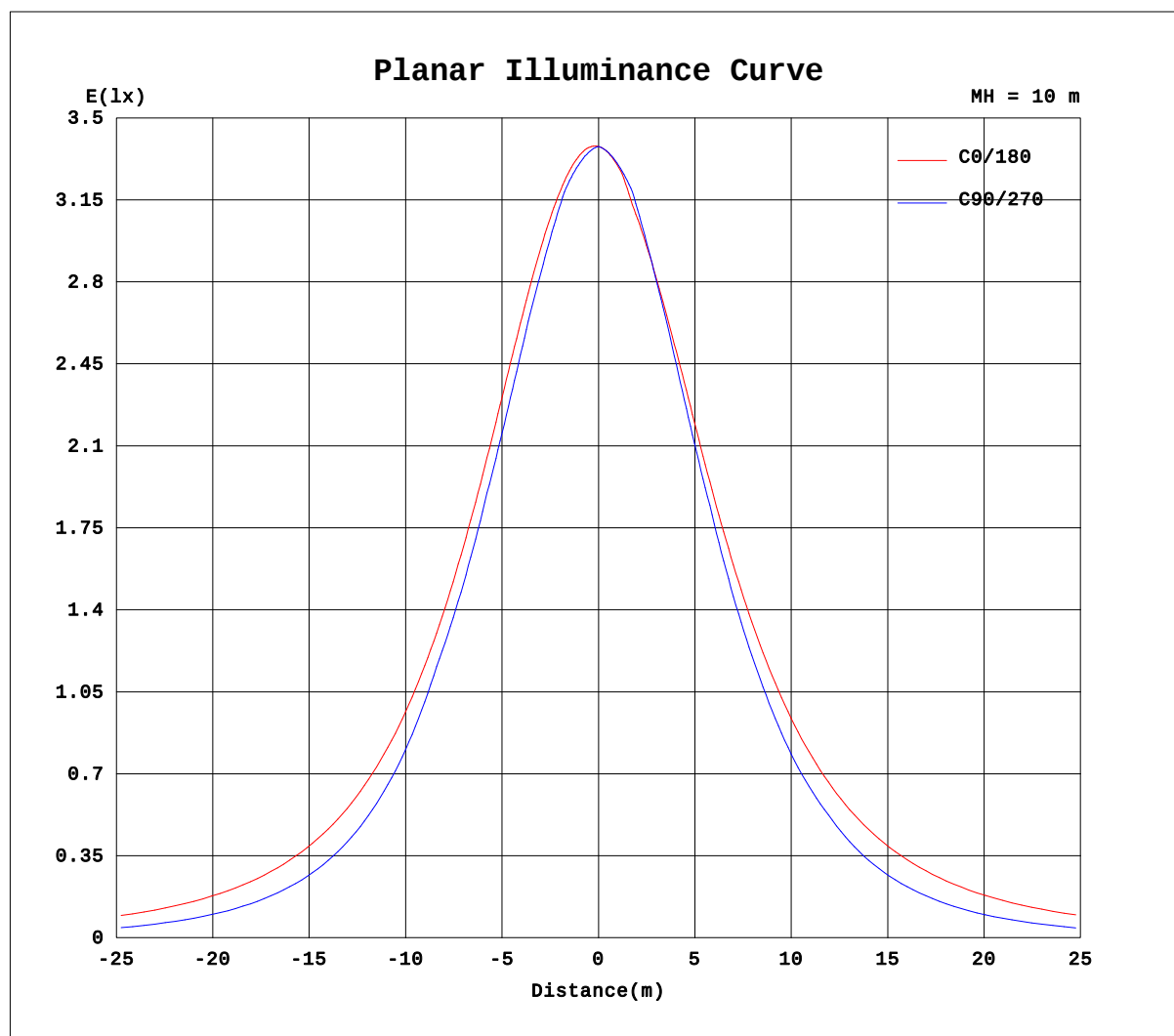


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 28.0DEG
Operators: QC1
Test Date: 2024-08-26

V(β) Range: -80 - 80DEG
V(β) Interval: 5.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity: 83%
Test Distance: 8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.1509A P:32.34W PF:0.9690 Lamp Flux:1171.44x1 lm		
NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-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
-85	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
-80	87.2	88.3	86.3	84.1	83.1	82.4	86.7	95.5	102	106	101	90.5	80.1	67.9	54.8	41.8	29.7	20.6	16.4
-75	87.1	89.2	88.4	87.6	86.8	86.5	94.8	106	116	122	117	108	98.8	88.0	76.5	65.1	55.2	47.8	44.3
-70	87.1	90.2	90.4	91.0	90.5	90.6	103	116	129	137	133	125	118	108	98.2	88.4	80.7	74.9	72.2
-65	87.0	90.9	91.9	92.1	92.4	97.8	113	128	143	153	151	146	139	132	124	117	110	105	103
-60	87.0	91.7	93.3	93.2	94.3	105	123	141	158	168	169	166	161	155	150	145	140	136	135
-55	86.1	89.4	91.3	92.6	97.4	114	134	155	172	181	184	186	184	181	177	173	169	167	166
-50	85.2	87.2	89.3	92.0	100	122	145	169	187	193	199	205	207	206	203	201	199	197	197
-45	79.6	80.9	86.0	92.2	108	133	160	183	198	205	213	220	224	226	227	227	227	227	228
-40	74.0	74.6	82.7	92.4	116	144	176	197	208	216	227	234	240	246	250	253	255	256	258
-35	66.2	72.2	82.9	99.8	129	164	187	203	217	228	239	247	254	260	265	268	271	273	275
-30	58.4	69.9	83.1	107	142	183	198	209	227	239	250	259	267	274	280	284	287	290	293
-25	55.3	68.4	90.5	129	157	185	203	218	234	247	259	268	277	285	291	295	299	302	305
-20	52.2	66.9	97.8	151	173	188	208	227	242	255	267	278	287	295	302	307	311	315	317
-15	45.9	80.7	118	153	175	194	213	231	247	260	273	284	294	302	309	314	319	323	325
-10	39.5	94.6	138	154	176	200	218	236	251	266	279	290	300	309	316	322	327	331	334
-5	67.9	104	138	158	178	200	218	235	251	265	278	290	300	309	316	322	327	333	336
0	96.3	114	138	161	180	199	218	235	251	265	278	290	300	310	317	323	328	335	338
5	93.3	118	139	160	180	199	217	235	250	265	278	289	300	309	317	322	327	333	336
10	90.3	121	141	159	180	199	217	234	250	265	278	289	300	309	316	322	327	331	333
15	92.3	121	140	158	177	196	213	230	246	260	272	283	293	301	308	313	317	321	323
20	94.2	120	139	157	175	192	210	226	241	255	267	277	286	293	299	304	308	311	313
25	93.9	119	137	154	171	188	205	221	235	248	259	268	275	282	287	291	294	297	299
30	93.6	118	135	152	168	184	200	215	229	241	250	258	265	270	275	278	280	283	284
35	93.2	117	133	149	164	179	194	208	221	231	239	246	251	255	258	260	262	264	265
40	92.9	116	131	146	160	174	188	201	213	222	228	233	237	240	242	243	244	245	246
45	92.9	115	129	142	155	168	180	192	202	209	214	218	220	221	221	221	221	222	222
50	92.9	113	126	138	150	162	173	184	192	197	200	203	203	202	201	199	198	198	198
55	92.5	111	123	134	144	154	164	174	180	183	184	183	181	178	174	171	168	166	166
60	92.1	110	119	129	139	147	156	164	169	170	168	164	159	153	148	142	138	135	135
65	92.0	107	116	125	133	140	147	153	156	154	150	144	137	129	121	114	108	104	103
70	92.0	105	113	120	127	133	138	142	142	138	131	124	114	105	94.8	85.1	77.4	72.2	70.7
75	91.4	101	108	114	119	124	127	129	128	123	115	106	95.5	84.4	72.7	61.3	51.5	44.6	42.4
80	90.8	96.9	104	109	112	115	117	116	114	108	98.9	88.3	76.6	63.8	50.6	37.5	25.6	17.1	14.1
85	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
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

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 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
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 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.02.039.0016 LLS-OP-D50-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080125
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2																	UNIT: cd	
H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-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
-85	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
-80	18.7	26.4	37.4	49.7	62.1	73.9	84.8	94.5	103	107	104	106	104	100	95.5	92.3	91.7	92.0
-75	46.2	52.3	61.3	71.7	82.4	92.6	102	110	117	121	116	115	112	107	102	96.1	93.7	91.8
-70	73.6	78.1	85.2	93.7	103	111	119	126	132	135	127	123	119	114	108	99.9	95.7	91.6
-65	105	108	114	121	128	134	140	145	149	150	141	130	124	118	111	103	96.1	91.4
-60	136	139	143	148	153	157	161	164	165	165	155	138	129	121	114	105	96.6	91.3
-55	167	169	173	176	179	182	184	184	182	177	168	150	134	124	116	107	96.4	90.4
-50	198	200	202	204	206	207	206	204	198	190	181	162	138	127	118	109	96.3	89.5
-45	228	229	231	231	231	229	225	219	211	201	190	173	150	130	118	108	95.7	87.1
-40	259	259	260	259	256	250	243	234	223	212	199	185	161	132	117	107	95.0	84.6
-35	276	277	276	275	271	264	256	246	234	221	206	191	171	145	121	104	93.2	80.9
-30	294	294	293	290	286	279	269	258	245	230	214	198	181	159	124	102	91.3	77.2
-25	306	306	305	302	296	289	279	266	252	236	219	202	184	164	138	109	85.3	70.0
-20	318	318	316	313	307	299	288	275	260	243	225	206	188	170	152	116	79.4	62.7
-15	326	326	323	319	313	304	293	280	264	247	228	209	190	172	153	127	96.8	59.5
-10	335	334	331	325	319	310	298	284	269	251	232	212	193	173	155	138	114	56.3
-5	337	336	333	328	322	313	301	287	271	253	234	214	194	174	155	137	117	80.6
0	339	338	336	332	325	316	304	290	273	255	236	215	195	175	155	137	121	105
5	337	336	332	328	322	313	301	287	271	253	233	213	193	174	154	137	120	105
10	334	334	328	325	318	309	298	284	268	250	231	211	191	172	154	136	120	104
15	324	323	320	316	310	301	291	277	262	245	227	208	189	170	152	135	119	104
20	313	313	311	307	302	294	283	271	256	240	223	204	186	168	150	134	119	104
25	299	299	297	294	289	282	273	261	248	233	217	200	182	165	149	133	118	104
30	285	284	283	281	277	270	262	252	239	226	211	195	179	163	147	132	118	104
35	265	265	265	263	260	255	248	239	228	216	203	188	173	158	144	130	116	104
40	246	246	247	246	244	239	233	225	216	206	194	181	168	154	140	127	115	103
45	223	223	224	225	223	221	216	210	203	194	185	174	162	149	137	125	114	103
50	199	201	202	203	203	202	199	195	190	183	175	166	156	144	133	123	112	102
55	168	170	174	177	180	181	181	179	176	171	165	158	149	139	130	120	111	102
60	136	140	146	151	156	161	163	163	162	159	155	150	142	134	126	118	110	102
65	105	110	116	124	131	138	143	147	148	148	146	142	136	129	122	116	109	102
70	73.1	78.9	87.0	96.3	106	115	123	130	135	137	137	134	130	124	119	113	108	103
75	45.4	52.9	62.9	74.2	85.3	95.9	106	114	121	125	127	126	122	118	114	110	106	102
80	17.8	27.0	38.9	52.0	64.9	77.0	88.2	98.3	107	114	117	117	115	112	110	107	105	102
85	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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: