

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	1018.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
---	--

Beam Spread	At 10% of Imax	103.2V x 96.1H
	At 50% of Imax	55.9V x 52.9H
	At 90% of Imax	21.8V x 20.9H

Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	896.4 lumens per klm.
	To 50% of Imax	506.9 lumens per klm.
	To 90% of Imax	94.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

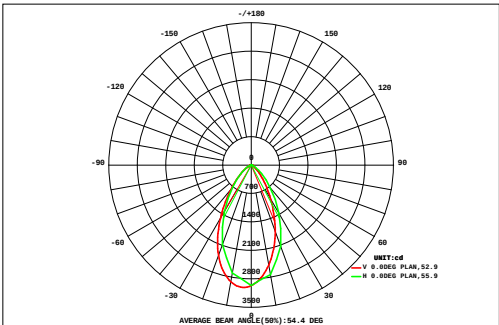
Luminaire Efficiency(Light Output Ratio)	100.0 %
--	---------

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-04

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:101.50lm/W	
MODELLS-WZB-W40-L12-DIM	Imax(cd)	3012	
NOMINAL POWER(W)	29	AVAILABILITY(%)	89.9
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2659
NOMINAL FLUX(lm)	2957.86	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2958
TEST VOLTAGE(V)	220	θ @50%(H,V)	53,56DEG

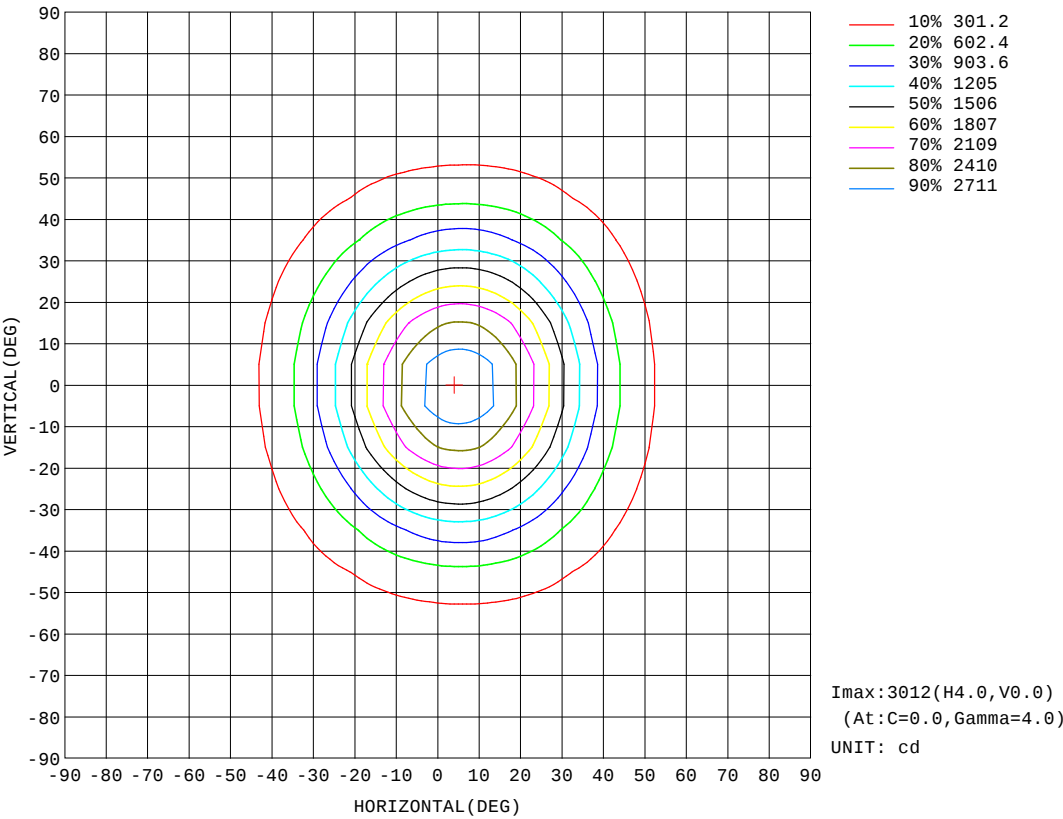
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.03	0.17	0.33	0.62	0.76	0.79	0.90	1.04	1.08	0.97	0.78	0.53	0.25	0.06	0.01	8.32	0.00
70	0.00	0.00	0.02	0.24	0.74	1.30	1.87	2.34	2.67	2.86	2.78	2.41	1.86	1.28	0.80	0.40	0.13	0.01	21.7	0.00
60	0.00	0.00	0.13	0.65	1.33	2.36	3.71	5.15	6.40	6.97	6.46	5.12	3.60	2.19	1.17	0.54	0.19	0.02	46.0	3.96
50	0.00	0.01	0.31	0.94	2.05	3.99	7.03	10.8	14.2	15.6	14.0	10.4	6.56	3.58	1.71	0.73	0.23	0.03	92.2	64.9
40	0.00	0.03	0.45	1.28	3.03	6.55	12.5	20.4	27.6	30.5	27.0	19.3	11.4	5.62	2.39	0.92	0.28	0.03	169	152
30	0.00	0.06	0.55	1.63	4.19	9.98	20.3	34.4	47.0	51.7	45.7	31.9	17.8	8.11	3.16	1.11	0.32	0.04	278	265
20	0.00	0.09	0.63	1.94	5.33	13.5	28.7	49.5	67.3	73.5	64.9	45.2	24.3	10.5	3.84	1.26	0.34	0.04	391	380
10	0.00	0.10	0.66	2.11	6.05	15.7	34.4	59.5	80.5	87.9	77.5	54.1	28.7	12.1	4.26	1.35	0.36	0.04	465	455
0	0.00	0.10	0.67	2.12	6.08	15.9	34.8	60.3	81.6	89.0	77.9	54.0	28.6	12.0	4.24	1.34	0.36	0.04	469	458
-10	0.00	0.08	0.62	1.94	5.38	13.6	29.3	50.9	69.5	75.8	66.3	45.5	24.3	10.5	3.82	1.26	0.34	0.03	399	388
-20	0.00	0.05	0.52	1.64	4.26	10.3	21.1	36.0	49.3	53.7	46.6	31.9	17.5	7.97	3.12	1.10	0.27	0.02	285	272
-30	0.00	0.01	0.37	1.24	3.04	6.69	12.9	21.2	28.7	31.4	27.4	19.3	11.2	5.49	2.35	0.89	0.20	0.02	172	156
-40	0.00	0.00	0.20	0.88	2.02	4.01	7.10	10.9	14.2	15.4	13.7	10.1	6.37	3.49	1.67	0.62	0.19	0.02	90.8	64.3
-50	0.00	0.00	0.07	0.53	1.26	2.28	3.53	4.74	5.83	6.33	5.83	4.73	3.44	2.13	1.13	0.44	0.16	0.01	42.5	1.32
-60	0.00	0.00	0.00	0.21	0.69	1.17	1.66	2.03	2.28	2.43	2.41	2.16	1.75	1.25	0.70	0.33	0.11	0.00	19.2	0.00
-70	0.00	0.00	0.00	0.01	0.19	0.38	0.55	0.67	0.68	0.75	0.85	0.89	0.79	0.65	0.40	0.20	0.04	0.00	7.05	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.06	0.11	0.17	0.17	0.09	0.02	0.00	0.00	0.66	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	0.00
Φ t	0.00	0.53	5.18	17.4	45.8	108	220	369	499	545	480	338	189	87.9	35.4	12.8	3.59	0.36	2958	---
Φ a	0.00	0.00	0.00	0.00	9.98	81.6	198	349	480	527	462	318	167	61.4	3.43	0.00	0.00	0.00	---	2659

one-half-peak spread: U:28.4,D:28.0 , L:26.9,MEAS. Beam Type: Type 5 x 6 (H x V)

H(β) Range:-90 - 90DEG	V(B) Range:-80 - 80DEG
H(β) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Temperature:28.0DEG	Humidity:83%
Operators:QC1	Test Distance:8.300m [K=1.0000]
Test Date:2024-12-04	Remarks:

ISOCANDELA DIAGRAM

Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

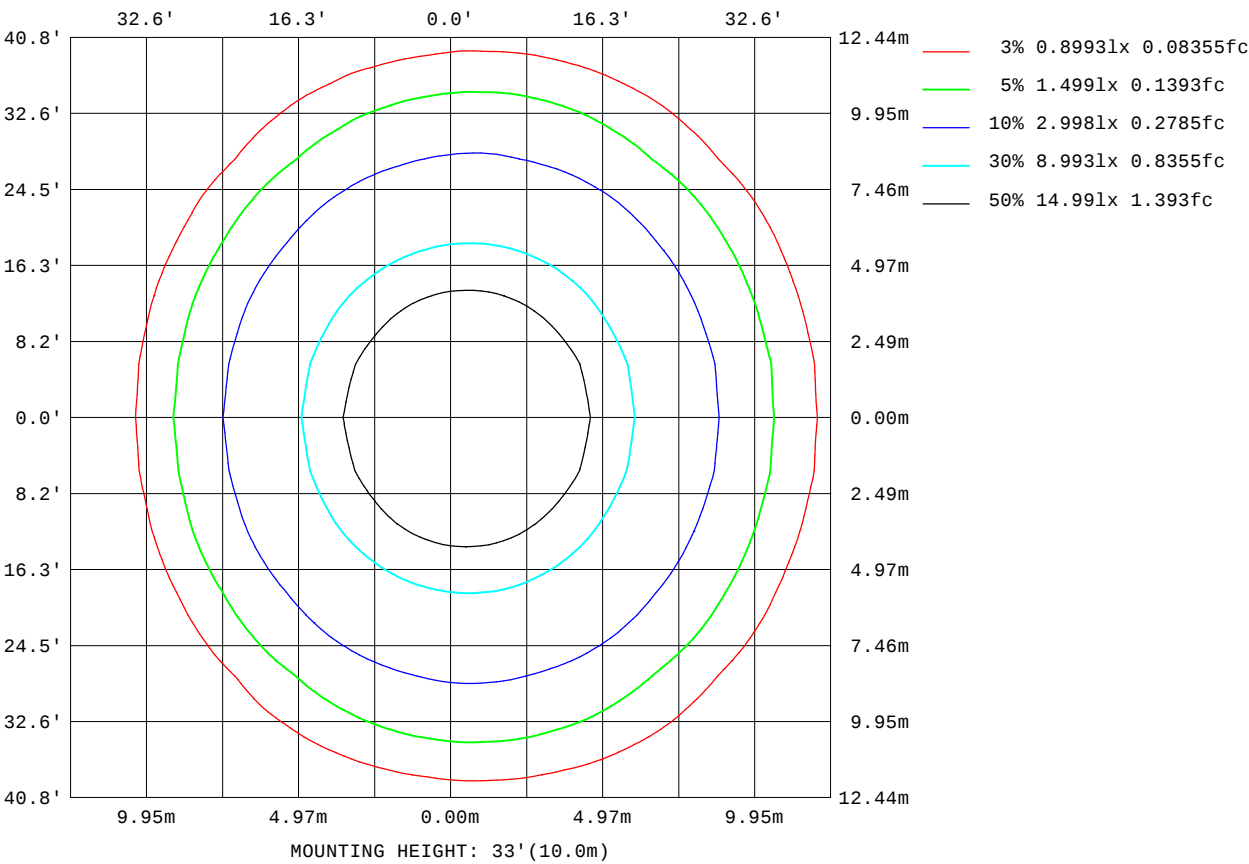


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-04

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

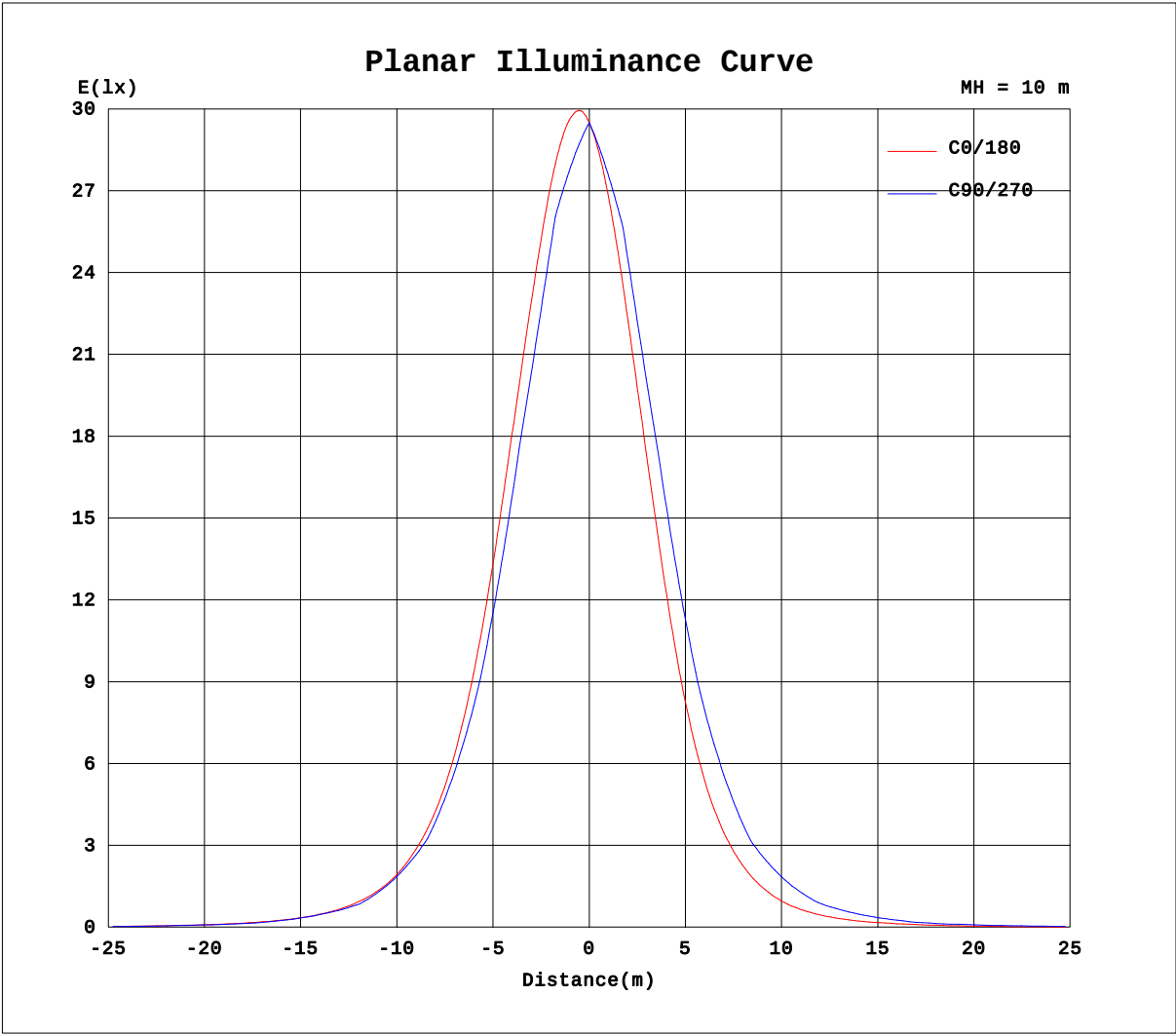
Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-04

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

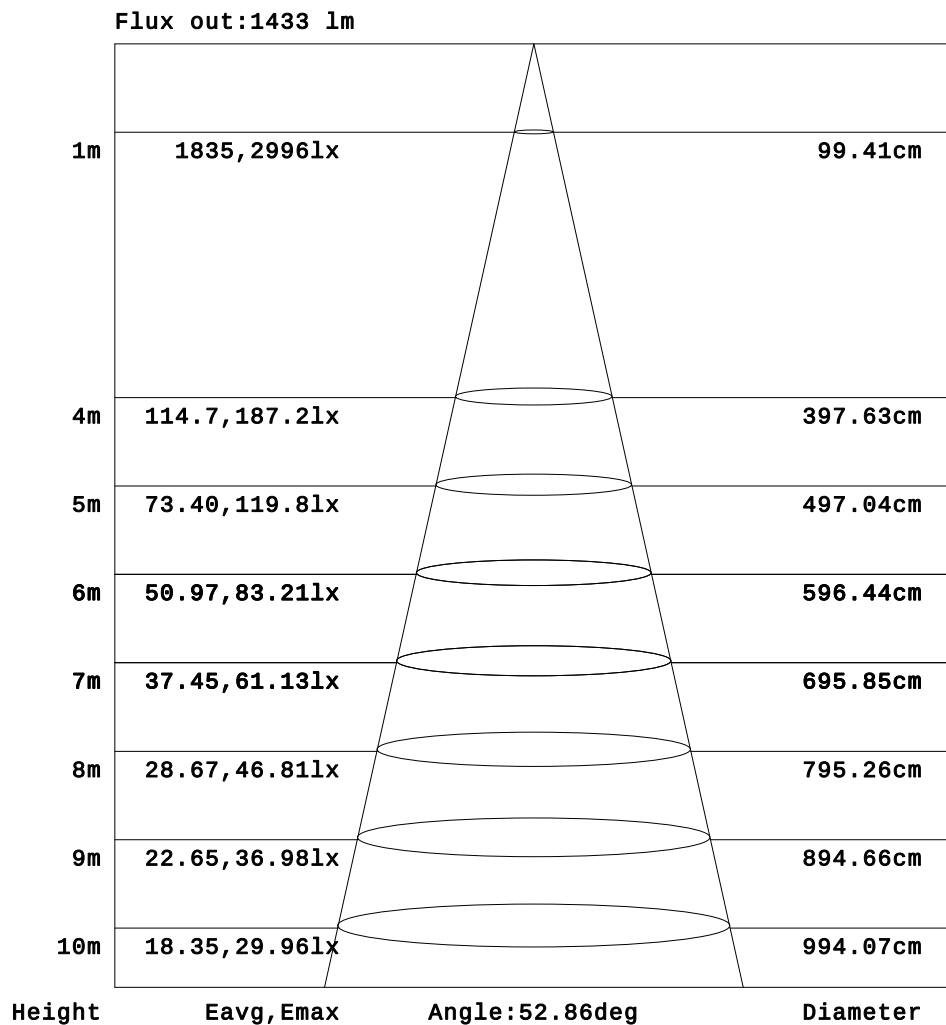


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-04

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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:2024-12-04

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	4.03	5.64	5.51	4.44	4.80	4.48
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49	9.19	12.8	15.5	17.3	21.1	24.6	25.8	25.8	26.7	27.0
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	9.33	20.0	26.8	31.7	35.4	40.0	44.2	46.2	47.3	48.9	49.8
-65	0.00	0.00	0.00	0.00	0.00	0.00	2.64	9.55	20.2	31.2	39.5	47.9	56.0	64.0	71.5	77.3	82.5	87.2	90.9
-60	0.00	0.00	0.00	0.00	0.00	0.00	7.91	22.1	36.1	45.7	55.7	67.1	79.8	91.3	101	110	120	127	133
-55	0.00	0.00	0.00	0.00	0.00	2.95	13.4	28.2	43.7	57.5	72.0	91.5	112	134	154	176	197	215	229
-50	0.00	0.00	0.00	0.00	0.00	8.79	24.4	40.6	57.0	74.7	96.9	124	153	184	214	248	281	309	329
-45	0.00	0.00	0.00	0.00	0.70	12.1	29.0	47.5	66.8	89.5	119	158	204	258	316	378	438	489	525
-40	0.00	0.00	0.00	0.00	4.21	22.4	41.0	61.9	85.2	116	157	209	276	355	441	531	616	686	732
-35	0.00	0.00	0.00	0.00	5.69	26.1	44.0	66.8	94.4	133	185	256	347	457	582	717	847	958	1034
-30	0.00	0.00	0.00	0.00	14.3	37.1	56.2	81.4	117	169	239	337	459	608	776	956	1127	1266	1354
-25	0.00	0.00	0.00	0.69	16.6	36.9	57.6	85.7	125	182	265	383	537	725	946	1183	1411	1598	1724
-20	0.00	0.00	0.00	5.89	27.4	43.0	69.5	103	152	224	335	485	684	925	1210	1503	1781	1991	2124
-15	0.00	0.00	0.00	2.81	25.2	42.5	67.7	102	151	227	342	505	724	998	1324	1662	1981	2237	2410
-10	0.00	0.00	0.00	8.46	31.0	49.6	77.9	117	176	270	409	603	864	1194	1574	1955	2297	2567	2738
-5	0.00	0.00	0.00	5.54	27.9	46.0	73.3	110	167	255	392	584	846	1179	1572	1968	2331	2626	2825
0	0.00	0.00	0.00	11.3	32.2	51.9	81.6	123	187	287	443	659	951	1316	1732	2134	2496	2782	2963
5	0.00	0.00	0.00	6.23	28.0	46.1	73.3	110	167	256	393	586	848	1181	1570	1961	2317	2607	2804
10	0.00	0.00	0.00	10.0	31.2	49.8	78.0	117	177	271	411	606	869	1195	1568	1938	2268	2527	2694
15	0.00	0.00	0.00	4.51	25.9	43.4	68.5	102	152	229	345	508	725	999	1320	1647	1953	2198	2365
20	0.00	0.00	0.00	7.60	28.7	45.6	70.7	104	152	227	337	488	682	925	1203	1484	1747	1949	2077
25	0.00	0.00	0.00	1.81	21.1	38.7	59.5	87.6	126	184	268	384	536	722	940	1168	1385	1565	1688
30	0.00	0.00	0.00	2.35	21.8	38.6	58.3	84.3	119	170	240	336	458	603	767	941	1103	1239	1330
35	0.00	0.00	0.00	0.11	14.0	32.1	48.1	69.6	97.1	135	188	257	346	454	576	704	831	937	1012
40	0.00	0.00	0.00	0.00	13.9	31.8	45.7	64.7	88.1	118	159	210	275	352	437	520	603	672	714
45	0.00	0.00	0.00	0.00	5.42	22.0	37.0	51.7	69.9	92.9	123	159	204	258	318	377	438	488	523
50	0.00	0.00	0.00	0.00	2.68	18.5	33.9	45.3	60.1	78.1	99.6	124	154	188	224	258	293	321	342
55	0.00	0.00	0.00	0.00	0.29	8.11	22.5	34.9	47.2	60.2	76.0	94.7	115	138	160	183	206	224	238
60	0.00	0.00	0.00	0.00	0.00	2.92	16.3	29.4	39.4	48.2	59.4	72.6	85.1	96.4	106	116	126	133	139
65	0.00	0.00	0.00	0.00	0.00	0.42	6.80	14.9	24.7	33.7	42.9	52.0	60.4	69.0	76.6	82.1	87.6	92.2	95.8
70	0.00	0.00	0.00	0.00	0.00	0.00	0.08	4.50	13.8	22.8	30.0	34.8	39.1	45.1	49.1	50.3	51.2	52.6	53.5
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	5.93	10.6	14.4	17.0	20.4	25.5	28.7	29.3	29.2	29.9	30.2
80	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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-04

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.2168A P:29.14W PF:1.000 Freq:50.00Hz Lamp Flux:2957.86x1 lm		
NAME: 8.02.038.0044 60° LLS-WZB-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120012
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	7.43	10.1	12.9	15.3	17.5	19.4	20.8	21.5	21.4	18.6	14.2	10.5	7.10	2.61	0.00	0.00	0.00	2.44	
-75	29.4	31.9	33.6	35.1	36.2	36.1	35.0	33.7	32.2	29.8	23.2	19.0	15.0	10.3	4.73	1.67	0.00	1.42	
-70	52.8	54.2	54.9	55.5	55.1	52.5	48.7	45.3	42.3	39.0	30.1	25.9	21.1	15.8	8.21	2.14	0.00	2.85	
-65	94.4	96.1	95.0	92.5	88.5	82.9	76.1	68.7	61.0	53.4	42.1	31.9	26.3	21.1	13.5	5.80	0.26	1.13	
-60	137	138	134	128	120	111	100	89.0	76.6	64.3	49.1	35.3	29.1	24.1	15.9	6.58	0.00	2.86	
-55	236	235	224	210	191	170	149	126	105	85.3	67.1	48.2	35.1	27.6	20.6	10.9	1.50	1.05	
-50	335	329	310	284	255	221	188	154	124	99.2	77.9	54.8	37.8	28.4	22.0	11.2	0.80	3.41	
-45	539	531	497	452	393	330	272	217	169	129	98.6	72.6	48.8	32.5	24.1	15.0	3.20	0.92	
-40	744	723	670	595	507	415	333	260	197	147	109	81.0	52.5	32.5	23.5	14.0	1.31	2.04	
-35	1061	1041	965	859	728	591	466	354	261	189	136	98.6	68.6	43.1	25.5	16.9	4.75	0.34	
-30	1378	1335	1223	1073	894	714	550	410	293	208	147	104	74.4	45.2	22.9	15.3	2.68	0.00	
-25	1767	1727	1598	1410	1179	938	716	527	374	260	179	122	85.7	57.3	32.8	17.9	4.44	0.00	
-20	2155	2080	1906	1660	1364	1068	800	578	404	275	185	124	85.2	58.4	33.9	14.8	1.35	0.00	
-15	2468	2415	2242	1981	1651	1301	975	699	487	329	217	143	96.7	66.2	41.4	23.4	6.10	0.00	
-10	2779	2697	2487	2179	1797	1396	1030	726	497	329	215	140	93.8	63.6	39.3	25.7	4.42	0.00	
-5	2896	2834	2638	2339	1959	1542	1145	810	555	370	239	155	102	69.4	43.7	28.3	10.7	1.51	
0	3010	2914	2684	2359	1956	1521	1113	781	527	348	226	144	95.7	64.3	39.5	25.5	9.17	6.92	
5	2876	2816	2628	2338	1966	1549	1149	814	556	371	240	155	102	69.1	43.5	28.1	12.5	3.01	
10	2740	2665	2472	2179	1808	1409	1037	733	501	331	216	140	93.5	63.2	39.1	25.3	9.12	7.09	
15	2427	2381	2227	1981	1662	1314	983	707	490	331	218	143	96.3	65.7	41.5	27.2	11.9	3.06	
20	2112	2051	1897	1666	1373	1080	808	583	408	277	186	123	84.7	57.9	36.2	23.5	8.08	6.77	
25	1733	1701	1588	1413	1184	947	723	533	380	263	180	123	85.3	59.3	38.0	25.6	10.8	3.18	
30	1354	1317	1219	1075	898	721	555	415	298	211	148	104	74.1	51.2	33.4	21.7	7.15	7.01	
35	1042	1023	958	857	729	595	469	359	265	192	137	98.9	71.8	50.4	33.9	22.8	9.21	3.32	
40	731	710	663	589	506	418	335	263	199	147	109	81.2	60.5	41.8	29.9	18.3	5.24	6.70	
45	539	532	501	453	395	332	273	218	170	130	98.7	75.3	56.7	40.5	29.5	18.9	6.83	3.49	
50	348	345	324	293	260	222	187	154	124	98.5	78.1	61.4	46.0	33.9	25.5	14.7	3.27	6.63	
55	245	245	234	217	196	173	150	127	104	84.6	68.3	54.4	42.3	32.3	23.9	14.4	4.02	3.74	
60	143	143	139	132	123	114	102	89.4	75.8	63.7	52.6	42.5	34.2	27.3	18.7	10.1	1.10	6.21	
65	99.5	101	99.5	96.2	91.3	85.7	78.1	69.9	61.3	53.2	45.8	38.3	30.8	24.1	16.7	8.99	1.54	4.27	
70	56.9	58.1	58.7	58.8	57.8	54.5	50.6	46.9	43.5	40.1	36.0	31.0	24.6	18.1	11.7	4.75	0.41	6.44	
75	32.9	35.2	36.9	38.1	39.0	38.4	37.0	35.4	33.6	31.1	28.2	23.7	18.3	12.9	7.87	3.35	1.04	4.89	
80	10.3	12.9	15.6	17.9	20.2	21.8	22.8	23.1	22.8	21.5	18.9	14.5	9.79	5.57	2.14	0.52	2.06	5.91	
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:2024-12-04

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: