

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	277.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	164.1V x 179.4H
	At 50% of Imax	119.5V x 152.7H
	At 90% of Imax	58.0V x 92.9H

Beam Flux	Total	996.3 lumens per klm.
	To 10% of Imax	992.6 lumens per klm.
	To 50% of Imax	827.9 lumens per klm.
	To 90% of Imax	312.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.6 %

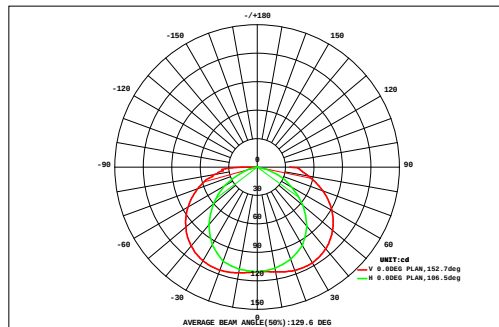
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-03

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:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm		
NAME: LLS-OP-W20A-L10-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:34.46lm/W	
MODEL	LLS-OP-W20A-L10-S	Imax(cd)	116.6
NOMINAL POWER(W)	12	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	420.3
NOMINAL FLUX(lm)	420.992	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	421.0
TEST VOLTAGE(V)	24	θ @50%(H,V)	153,120DEG

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	0.08	0.34	0.60	0.81	0.91	0.88	0.71	0.50	0.29	0.28	0.52	0.76	0.95	1.00	0.91	0.71	0.45	0.15	10.8	10.7
70	0.09	0.34	0.63	0.90	1.11	1.24	1.25	1.20	1.06	1.04	1.20	1.28	1.30	1.18	0.96	0.68	0.38	0.12	16.0	16.0
60	0.10	0.38	0.73	1.10	1.44	1.69	1.81	1.76	1.63	1.62	1.75	1.83	1.75	1.51	1.17	0.78	0.41	0.12	21.6	21.6
50	0.10	0.41	0.82	1.29	1.74	2.10	2.30	2.33	2.25	2.23	2.32	2.32	2.15	1.80	1.35	0.86	0.44	0.12	27.0	27.0
40	0.11	0.44	0.90	1.44	1.98	2.42	2.70	2.80	2.74	2.73	2.77	2.71	2.45	2.02	1.48	0.94	0.46	0.12	31.2	31.2
30	0.11	0.45	0.94	1.53	2.12	2.62	2.96	3.10	3.08	3.05	3.06	2.95	2.64	2.16	1.58	0.99	0.48	0.13	34.0	34.0
20	0.11	0.46	0.97	1.58	2.20	2.73	3.10	3.26	3.26	3.23	3.23	3.10	2.76	2.26	1.65	1.03	0.50	0.13	35.6	35.6
10	0.11	0.46	0.98	1.61	2.23	2.78	3.17	3.35	3.36	3.34	3.33	3.19	2.85	2.32	1.70	1.06	0.51	0.13	36.5	36.5
0	0.09	0.45	0.97	1.60	2.23	2.78	3.17	3.36	3.38	3.36	3.35	3.21	2.87	2.34	1.71	1.07	0.52	0.13	36.6	36.6
-10	0.07	0.41	0.94	1.56	2.18	2.73	3.12	3.30	3.31	3.29	3.29	3.17	2.83	2.32	1.70	1.06	0.51	0.11	35.9	35.9
-20	0.04	0.34	0.88	1.48	2.08	2.61	2.97	3.12	3.11	3.09	3.11	3.02	2.72	2.23	1.64	1.03	0.47	0.08	34.0	34.0
-30	0.04	0.25	0.79	1.36	1.92	2.38	2.67	2.77	2.71	2.69	2.74	2.70	2.47	2.06	1.54	0.97	0.40	0.10	30.5	30.5
-40	0.06	0.21	0.64	1.20	1.66	2.03	2.23	2.27	2.18	2.16	2.26	2.27	2.12	1.80	1.37	0.85	0.37	0.10	25.8	25.8
-50	0.07	0.20	0.50	0.99	1.35	1.62	1.73	1.70	1.58	1.56	1.70	1.78	1.72	1.50	1.18	0.70	0.36	0.10	20.3	20.3
-60	0.07	0.19	0.38	0.75	1.02	1.16	1.17	1.08	0.93	0.93	1.10	1.24	1.27	1.18	0.95	0.59	0.33	0.10	14.4	14.4
-70	0.06	0.18	0.29	0.52	0.69	0.70	0.59	0.45	0.29	0.30	0.49	0.68	0.82	0.85	0.72	0.48	0.28	0.10	8.50	8.11
-80	0.02	0.09	0.12	0.19	0.23	0.19	0.09	0.01	0.00	0.00	0.02	0.13	0.25	0.31	0.28	0.19	0.12	0.05	2.30	2.11
-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
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	1.32	5.62	12.1	19.9	27.1	32.6	35.8	36.4	35.2	34.9	36.2	36.4	33.9	28.9	21.9	14.0	7.00	1.88	421	---
Φ a	1.30	5.62	12.1	19.9	27.1	32.6	35.7	36.2	35.0	34.8	36.1	36.3	33.9	28.9	21.9	14.0	7.00	1.88	---	420

one-half-peak spread: U:59.6,D:60.5 , L:53.8,R:50.5

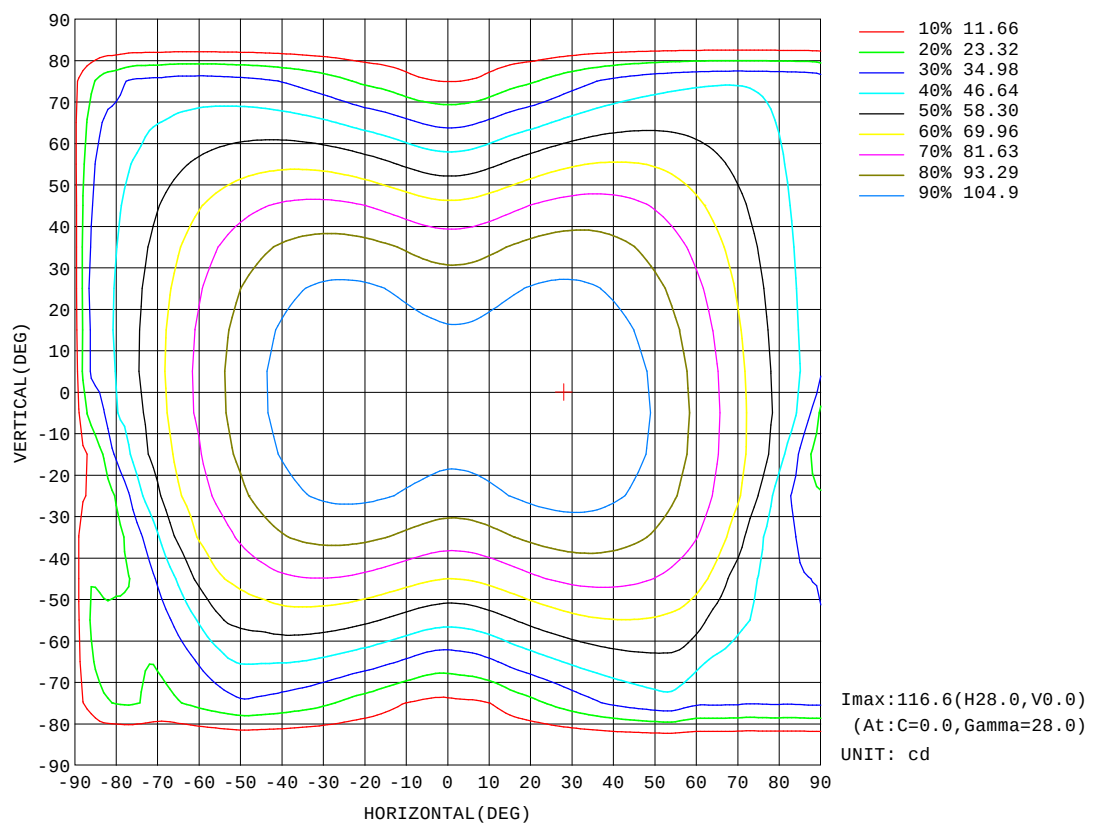
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-03

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:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm		
NAME: LLS-0P-W20A-L10-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

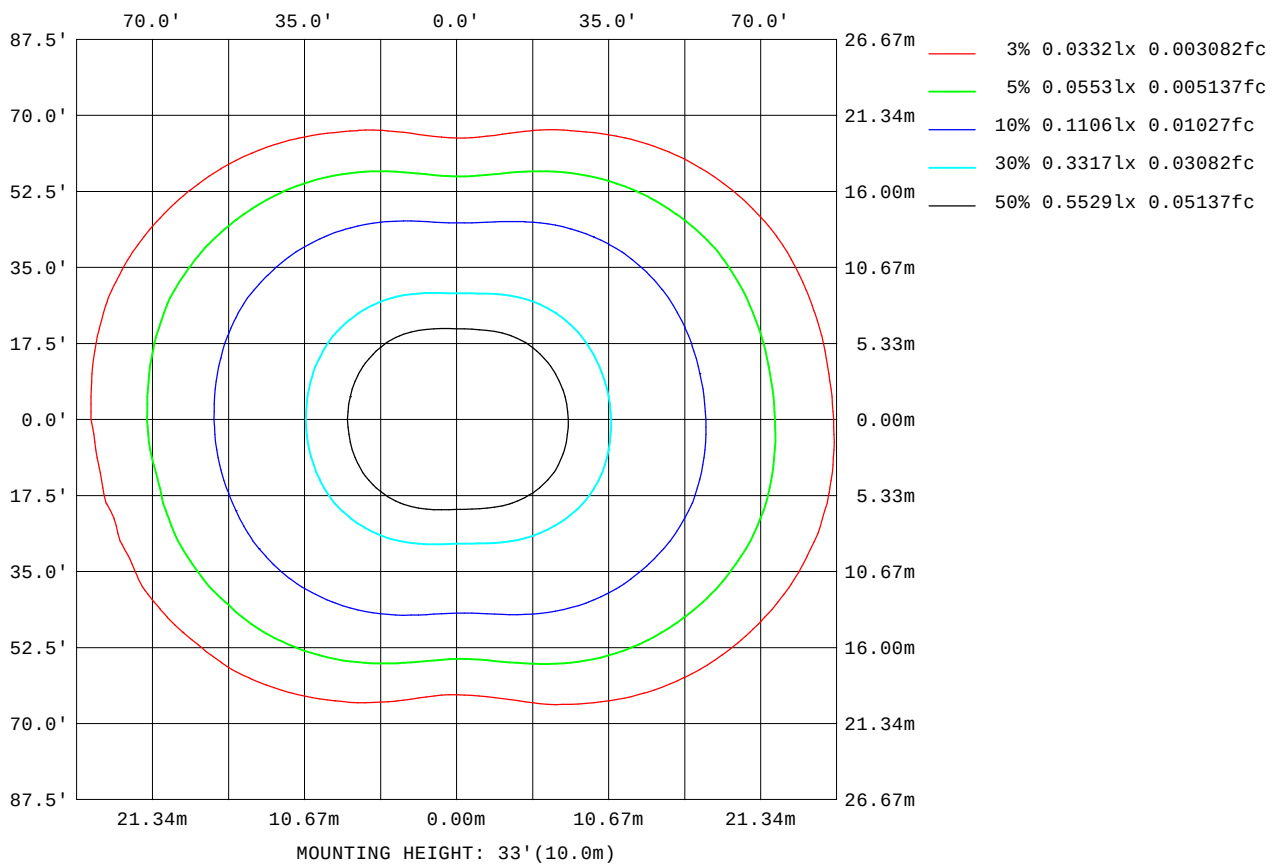


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Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-03

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:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm		
NAME: LLS-0P-W20A-L10-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

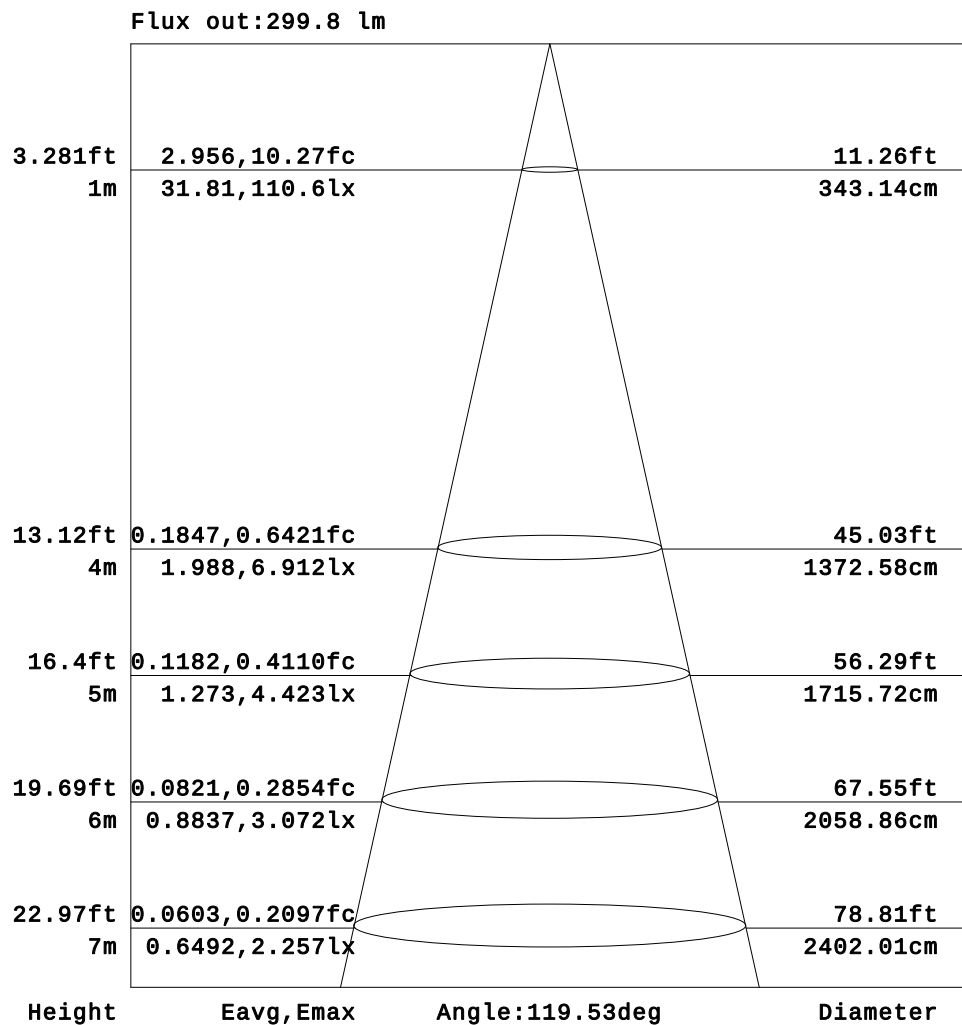


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-03

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:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm		
NAME: LLS-0P-W20A-L10-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

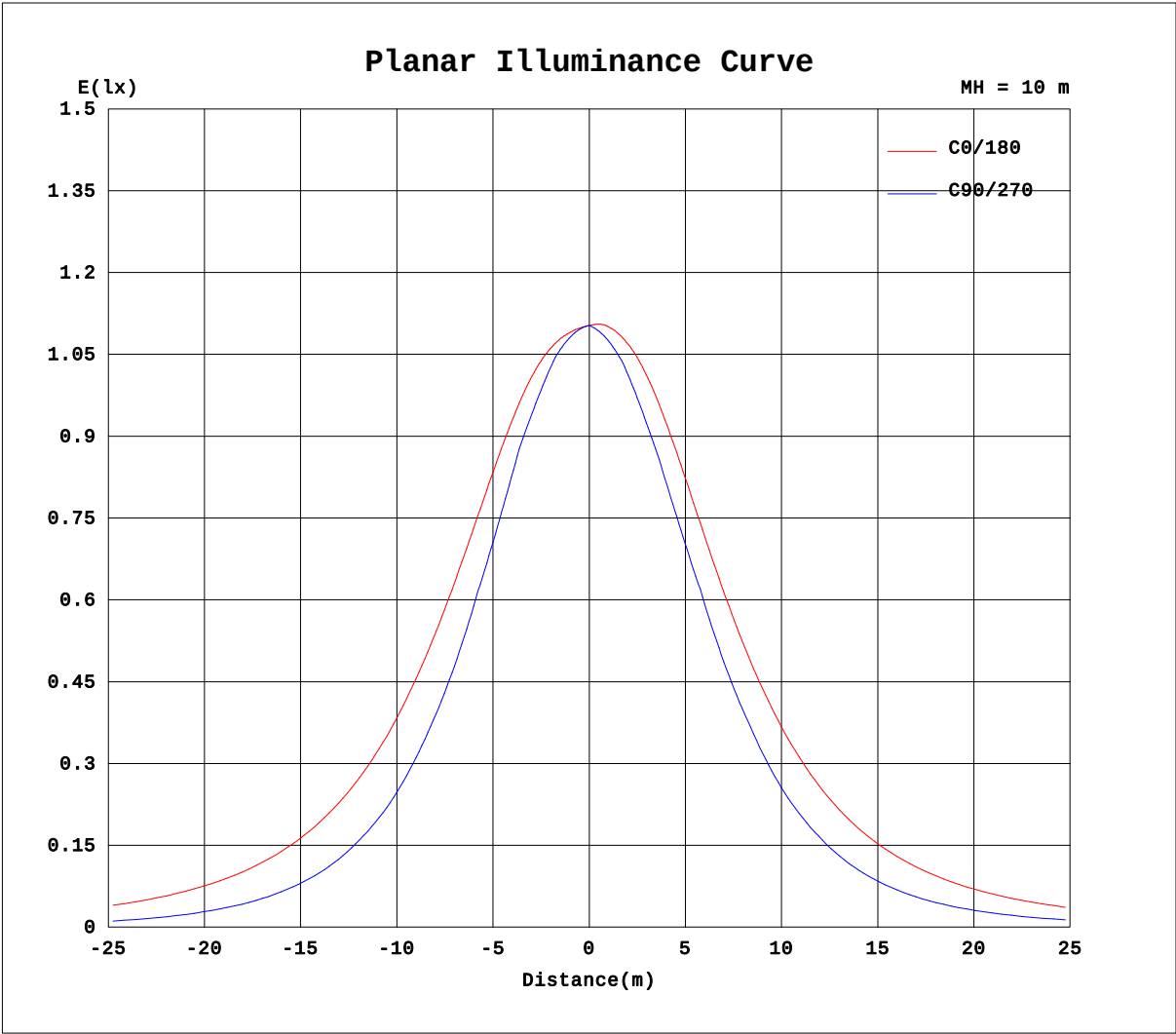


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-03

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



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Test Date:2024-09-03

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm																	
NAME: LLS-0P-W20A-L10-S									TYPE:LED			WEIGHT:					
DIM.:									SPEC.:			SERIAL No.:2024090018					
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	8.72	14.6	21.3	23.2	19.9	20.2	22.5	24.8	26.6	25.4	23.1	19.7	16.0	11.8	7.49	3.50	0.00	0.00	0.00
-75	8.67	18.3	23.8	23.7	20.9	22.8	26.5	30.2	33.5	32.6	30.7	28.3	25.3	21.7	18.4	15.1	11.6	9.48	9.11
-70	8.63	22.1	26.3	24.2	21.9	25.4	30.5	35.5	40.3	39.7	38.3	36.9	34.6	31.7	29.4	26.6	23.1	19.0	18.2
-65	8.37	24.6	26.2	24.0	24.0	29.5	36.0	42.7	47.4	47.4	47.1	46.4	44.7	42.3	39.8	36.9	33.6	30.1	29.0
-60	8.11	27.0	26.0	23.9	26.2	33.6	41.4	49.9	54.5	55.0	55.9	56.0	54.8	52.9	50.3	47.2	44.0	41.2	39.8
-55	7.86	25.8	25.3	23.5	29.3	38.2	47.8	57.0	61.0	62.5	64.4	64.8	64.1	62.6	60.3	57.5	54.4	51.6	50.2
-50	7.61	24.6	24.5	23.1	32.4	42.7	54.1	64.1	67.5	70.0	72.8	73.6	73.4	72.3	70.4	67.9	64.9	62.1	60.7
-45	7.19	22.7	21.9	25.5	36.2	48.3	60.9	69.0	73.1	76.9	79.9	81.2	81.4	80.8	79.2	76.9	74.2	71.5	70.1
-40	6.77	20.8	19.3	27.9	40.1	54.0	67.7	73.8	78.8	83.8	87.1	88.8	89.5	89.3	88.1	86.0	83.4	80.9	79.5
-35	6.58	17.4	20.0	31.4	45.4	60.4	70.8	77.4	83.3	88.7	92.4	94.8	96.1	96.2	95.3	93.5	91.1	88.7	87.3
-30	6.40	13.9	20.7	34.8	50.6	66.8	74.0	81.1	87.7	93.6	97.7	101	103	103	103	101	98.8	96.5	95.0
-25	3.81	13.9	24.3	41.7	56.2	68.7	75.7	84.1	90.7	96.5	101	104	106	107	107	106	104	102	100
-20	1.22	13.9	28.0	48.6	61.8	70.6	77.4	87.1	93.7	99.4	104	108	110	111	111	110	109	107	106
-15	0.61	18.0	36.7	51.6	62.3	72.6	80.2	88.9	95.4	101	106	109	112	113	113	112	110	109	108
-10	0.00	22.0	45.4	54.7	62.8	74.7	83.0	90.6	97.2	103	107	111	113	114	115	114	112	111	109
-5	0.00	29.6	45.7	56.0	64.8	75.3	83.7	91.2	97.8	103	108	111	114	115	115	114	113	111	110
0	0.00	37.3	46.1	57.3	66.8	76.0	84.3	91.9	98.4	104	108	112	114	115	116	115	113	112	110
5	3.39	37.9	47.3	57.4	66.7	75.8	84.2	91.7	98.1	104	108	111	114	115	115	114	112	111	109
10	6.78	38.6	48.4	57.4	66.7	75.7	84.0	91.5	97.8	103	108	111	113	114	114	113	111	109	108
15	6.59	38.7	48.4	57.1	66.2	75.1	83.2	90.4	96.7	102	106	109	111	112	112	111	109	107	106
20	6.40	38.8	48.4	56.9	65.8	74.4	82.3	89.4	95.5	101	105	108	109	110	110	109	107	105	103
25	7.19	38.8	47.7	56.1	64.6	72.9	80.5	87.3	93.2	98.1	102	105	106	107	106	105	103	101	99.4
30	7.98	38.9	47.0	55.4	63.4	71.4	78.7	85.3	90.9	95.5	99.2	102	103	104	103	101	99.0	96.7	95.4
35	8.09	38.8	46.4	54.3	61.8	69.2	76.0	82.1	87.2	91.3	94.4	96.5	97.6	97.6	96.6	94.7	92.2	89.8	88.6
40	8.19	38.8	45.8	53.3	60.1	67.0	73.3	78.9	83.5	87.1	89.7	91.3	92.0	91.6	90.3	88.1	85.4	82.9	81.7
45	8.63	36.8	45.2	51.7	57.7	63.7	69.1	73.9	77.8	80.8	82.8	83.9	84.1	83.3	81.7	79.2	76.3	73.7	72.4
50	9.07	34.8	44.5	50.2	55.3	60.4	65.0	68.9	72.1	74.4	75.9	76.5	76.2	75.0	73.0	70.3	67.2	64.4	63.1
55	9.47	35.2	42.7	48.0	52.6	56.6	60.1	63.2	65.5	67.1	67.9	67.9	67.1	65.4	63.1	60.1	56.8	53.9	52.5
60	9.86	35.5	41.0	45.8	49.8	52.7	55.3	57.4	58.9	59.7	59.9	59.3	58.0	55.9	53.1	49.8	46.3	43.3	41.9
65	10.1	32.1	38.4	43.0	46.4	48.8	50.3	51.4	51.9	52.0	51.4	50.1	48.1	45.5	42.7	40.4	37.0	33.9	32.4
70	10.3	28.7	35.8	40.2	43.0	44.8	45.3	45.3	45.0	44.2	42.9	40.9	38.3	35.2	32.2	30.9	27.7	24.5	22.9
75	10.1	23.9	31.6	37.2	38.1	39.7	40.1	39.4	38.4	36.8	34.6	31.9	28.6	24.8	21.2	18.8	15.0	12.3	11.5
80	9.94	19.0	27.4	34.3	33.1	34.6	34.9	33.5	31.8	29.4	26.4	22.8	18.8	14.5	10.2	6.63	2.21	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:2024-09-03

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.5091A P:12.22W PF:1.000 Lamp Flux:420.992x1 lm		
NAME: LLS-0P-W20A-L10-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090018
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	0.00	0.00	4.64	9.60	14.8	19.9	24.7	29.0	32.8	36.2	35.8	30.7	31.9	31.5	33.1	34.6	36.2	37.2	
-75	10.0	11.6	16.5	20.4	24.7	29.2	33.3	36.9	39.9	42.4	42.4	37.1	37.0	36.5	35.9	36.4	36.4	37.0	
-70	20.1	23.1	28.3	31.3	34.6	38.4	41.9	44.7	47.0	48.6	49.0	43.5	42.1	41.4	38.7	38.1	36.5	36.9	
-65	30.4	33.4	37.8	41.4	44.8	48.3	51.1	53.2	54.7	55.6	55.4	49.6	45.1	43.9	41.6	38.7	37.3	36.5	
-60	40.6	43.6	47.4	51.4	55.1	58.1	60.4	61.8	62.5	62.5	61.7	55.8	48.1	46.4	44.5	39.4	38.2	36.1	
-55	51.0	53.8	57.4	61.2	64.5	67.1	68.9	69.7	69.8	69.1	67.5	62.9	53.4	48.2	45.5	40.6	37.6	35.5	
-50	61.4	64.0	67.4	70.9	73.9	76.1	77.4	77.7	77.1	75.6	73.3	69.9	58.6	49.9	46.5	41.8	37.1	35.0	
-45	70.7	73.1	76.4	79.6	82.2	84.1	84.9	84.7	83.5	81.4	78.4	74.3	65.5	53.3	46.5	41.8	35.9	34.0	
-40	80.0	82.3	85.3	88.3	90.6	92.0	92.4	91.7	90.0	87.3	83.5	78.7	72.4	56.8	46.4	41.8	34.7	33.1	
-35	87.8	89.8	92.7	95.4	97.4	98.5	98.6	97.5	95.2	91.9	87.5	82.0	75.3	63.5	49.3	40.1	33.5	30.9	
-30	95.5	97.4	100	102	104	105	105	103	100	96.6	91.5	85.3	78.3	70.3	52.1	38.5	32.3	28.7	
-25	101	103	105	107	109	109	109	107	103	99.1	93.7	87.2	79.8	71.6	58.1	41.8	29.5	24.7	
-20	106	108	110	112	113	113	112	110	106	102	96.0	89.1	81.4	72.8	64.0	45.2	26.7	20.7	
-15	108	110	112	114	115	115	114	111	108	103	96.9	90.0	82.2	73.5	64.4	50.4	33.5	14.1	
-10	110	111	113	115	116	116	115	112	109	104	97.9	91.0	83.0	74.2	64.8	55.6	40.2	7.51	
-5	110	112	114	116	116	116	115	112	109	104	97.9	90.8	82.8	73.9	64.6	55.3	43.6	20.8	
0	111	112	114	116	117	116	115	112	109	104	97.8	90.7	82.7	73.7	64.3	55.1	47.0	34.1	
5	110	111	113	115	116	115	114	111	108	103	97.1	90.0	82.0	73.1	63.8	54.6	46.8	36.8	
10	109	110	112	114	115	114	113	111	107	102	96.3	89.3	81.3	72.6	63.3	54.2	46.5	39.5	
15	106	108	110	111	112	112	111	108	105	100	94.5	87.7	79.9	71.4	62.4	53.6	46.1	39.6	
20	104	105	107	109	110	110	109	106	103	98.3	92.8	86.1	78.5	70.2	61.5	53.0	45.8	39.7	
25	99.7	101	104	105	107	107	106	103	100	95.8	90.4	84.0	76.8	68.8	60.5	52.4	45.7	39.7	
30	95.8	97.5	99.9	102	103	104	103	101	97.4	93.3	88.1	82.0	75.0	67.4	59.4	51.9	45.5	39.8	
35	89.1	91.1	93.8	96.2	97.8	98.5	98.0	96.2	93.4	89.5	84.7	78.9	72.4	65.2	57.9	50.9	45.2	39.9	
40	82.3	84.7	87.7	90.4	92.4	93.4	93.3	91.9	89.4	85.8	81.2	75.8	69.8	63.1	56.4	50.0	44.9	39.9	
45	73.1	75.6	78.8	81.8	84.2	85.6	86.1	85.3	83.6	80.7	76.9	72.1	66.7	60.8	54.8	49.2	44.7	40.1	
50	63.9	66.6	69.9	73.2	75.9	77.8	78.8	78.8	77.8	75.7	72.5	68.4	63.6	58.5	53.3	48.4	44.5	40.3	
55	53.4	56.3	59.9	63.4	66.5	68.8	70.2	70.7	70.4	69.2	67.0	63.9	60.1	55.9	51.6	47.6	44.4	40.5	
60	42.9	45.9	49.8	53.6	57.0	59.7	61.6	62.7	63.0	62.7	61.5	59.5	56.7	53.3	49.9	46.8	44.3	40.7	
65	33.5	36.6	40.5	43.3	46.6	49.8	52.4	54.2	55.2	55.7	55.5	54.5	53.0	50.9	48.5	46.3	44.4	41.1	
70	24.1	27.3	31.2	33.1	36.2	39.9	43.1	45.6	47.4	48.7	49.4	49.5	49.3	48.4	47.1	45.8	44.5	41.4	
75	12.1	14.8	19.2	22.1	26.1	30.4	34.3	37.5	40.2	42.3	44.0	45.2	45.9	46.1	45.9	45.3	44.7	41.7	
80	0.00	2.25	7.12	11.1	16.0	20.9	25.5	29.5	32.9	35.9	38.6	40.8	42.5	43.9	44.6	44.9	44.8	42.1	
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	
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:2024-09-03

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: