

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	397.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	157.8V x 174.0H
	At 50% of Imax	96.2V x 100.6H
	At 90% of Imax	35.2V x 34.3H

Beam Flux	Total	996.8 lumens per klm.
	To 10% of Imax	984.9 lumens per klm.
	To 50% of Imax	610.8 lumens per klm.
	To 90% of Imax	104.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

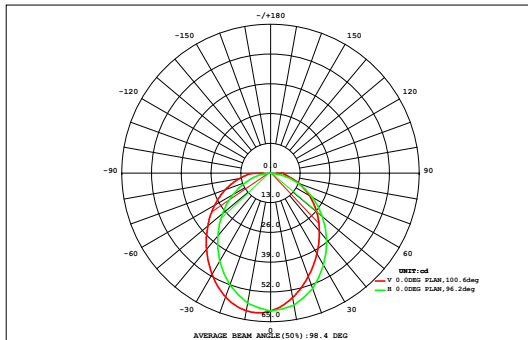
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:23.5DEG
Operators:QC1
Test Date:2020-11-10

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.1302A P:3.125W PF:1.000 Lamp Flux:154.198x1 lm		
NAME: LLS-COVE1-W40-8W-24V-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202010036
MFR.: 中山市泰然光电科技有限公司	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.35lm/W	
MODELLS-COVE1-W40-8W-24V		Imax(cd)	61.32
NOMINAL POWER(W)	3.1	AVAILABILITY(%)	99.1
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	152.8
NOMINAL FLUX(lm)	154.198	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	154.2
TEST VOLTAGE(V)	24	θ @50%(H,V)	101,96DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	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	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	0.03	0.10	0.17	0.24	0.29	0.33	0.34	0.32	0.29	0.27	0.25	0.23	0.20	0.16	0.13	0.09	0.05	0.02	3.48	3.29
70	0.03	0.09	0.18	0.27	0.37	0.45	0.50	0.53	0.52	0.50	0.45	0.39	0.31	0.23	0.16	0.09	0.05	0.02	5.14	5.10
60	0.03	0.10	0.21	0.34	0.48	0.61	0.71	0.77	0.78	0.75	0.67	0.57	0.46	0.33	0.22	0.12	0.05	0.02	7.21	7.20
50	0.03	0.12	0.25	0.41	0.59	0.76	0.91	1.01	1.04	1.00	0.89	0.75	0.59	0.42	0.27	0.15	0.06	0.02	9.26	9.25
40	0.03	0.13	0.28	0.47	0.69	0.91	1.11	1.25	1.30	1.24	1.10	0.91	0.71	0.50	0.32	0.17	0.07	0.02	11.2	11.2
30	0.03	0.13	0.30	0.52	0.77	1.04	1.29	1.47	1.54	1.47	1.29	1.06	0.81	0.57	0.36	0.19	0.07	0.02	12.9	12.9
	0.03	0.14	0.31	0.55	0.83	1.13	1.43	1.65	1.74	1.65	1.44	1.16	0.88	0.62	0.39	0.20	0.08	0.02	14.2	14.2
	0.03	0.14	0.32	0.56	0.85	1.18	1.50	1.75	1.84	1.75	1.52	1.22	0.92	0.64	0.40	0.21	0.08	0.02	14.9	14.9
	0.03	0.14	0.32	0.56	0.85	1.17	1.49	1.73	1.83	1.74	1.51	1.22	0.92	0.64	0.40	0.21	0.08	0.02	14.8	14.8
	0.03	0.13	0.30	0.53	0.80	1.10	1.39	1.61	1.70	1.63	1.42	1.16	0.88	0.62	0.39	0.21	0.08	0.02	14.0	14.0
	0.03	0.13	0.28	0.49	0.74	0.99	1.23	1.42	1.49	1.43	1.26	1.04	0.80	0.57	0.36	0.19	0.08	0.02	12.6	12.5
-30	0.02	0.12	0.26	0.44	0.65	0.86	1.05	1.18	1.24	1.19	1.06	0.89	0.69	0.50	0.32	0.17	0.07	0.01	10.7	10.7
-40	0.02	0.11	0.23	0.38	0.55	0.71	0.85	0.94	0.97	0.94	0.85	0.72	0.57	0.41	0.27	0.15	0.06	0.01	8.74	8.73
-50	0.02	0.09	0.20	0.31	0.44	0.56	0.65	0.70	0.72	0.69	0.63	0.54	0.43	0.32	0.21	0.12	0.06	0.01	6.70	6.68
-60	0.02	0.08	0.16	0.24	0.33	0.40	0.45	0.48	0.47	0.45	0.41	0.36	0.29	0.22	0.15	0.09	0.05	0.01	4.66	4.62
-70	0.01	0.07	0.13	0.18	0.22	0.24	0.26	0.26	0.25	0.23	0.22	0.19	0.16	0.13	0.10	0.07	0.04	0.01	2.78	2.32
-80	0.01	0.03	0.05	0.06	0.07	0.07	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.02	0.00	0.79	0.22
-90	0.01	0.03	0.05	0.06	0.07	0.07	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.02	0.00	0.79	0.22
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.41	1.83	3.93	6.56	9.51	12.5	15.2	17.1	17.8	17.0	15.0	12.5	9.66	6.94	4.49	2.48	1.06	0.24	154	---
Φ a	0.37	1.82	3.93	6.56	9.49	12.5	15.1	17.1	17.7	16.9	14.9	12.3	9.55	6.83	4.38	2.36	0.91	0.11	---	153

one-half-peak spread: U:47.2,D:49.7 , L:51.3,R:50.1

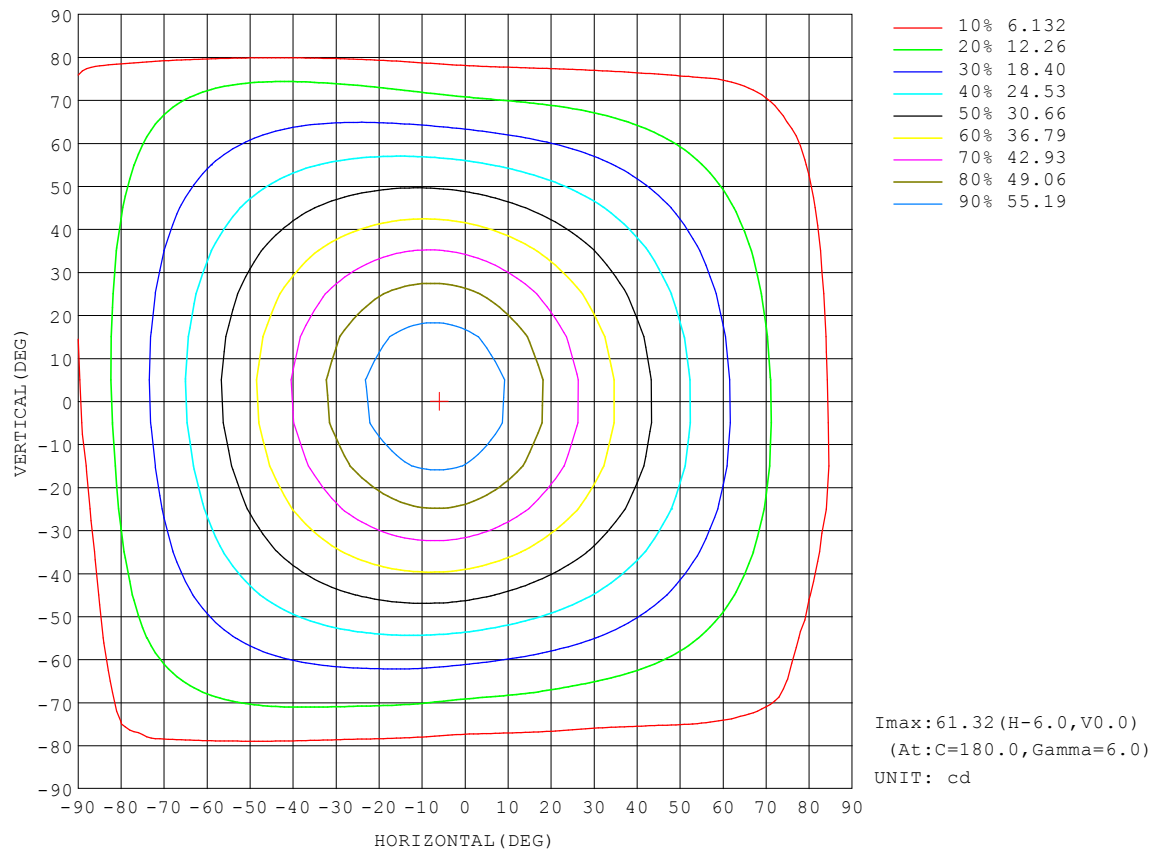
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:23.5DEG
Operators:QC1
Test Date:2020-11-10

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.1302A P:3.125W PF:1.000 Lamp Flux:154.198x1 lm		
NAME: LLS-COVE1-W40-8W-24V-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202010036
MFR.: 中山市泰然光电科技有限公司	SUR.:	PROTECTION ANGLE:

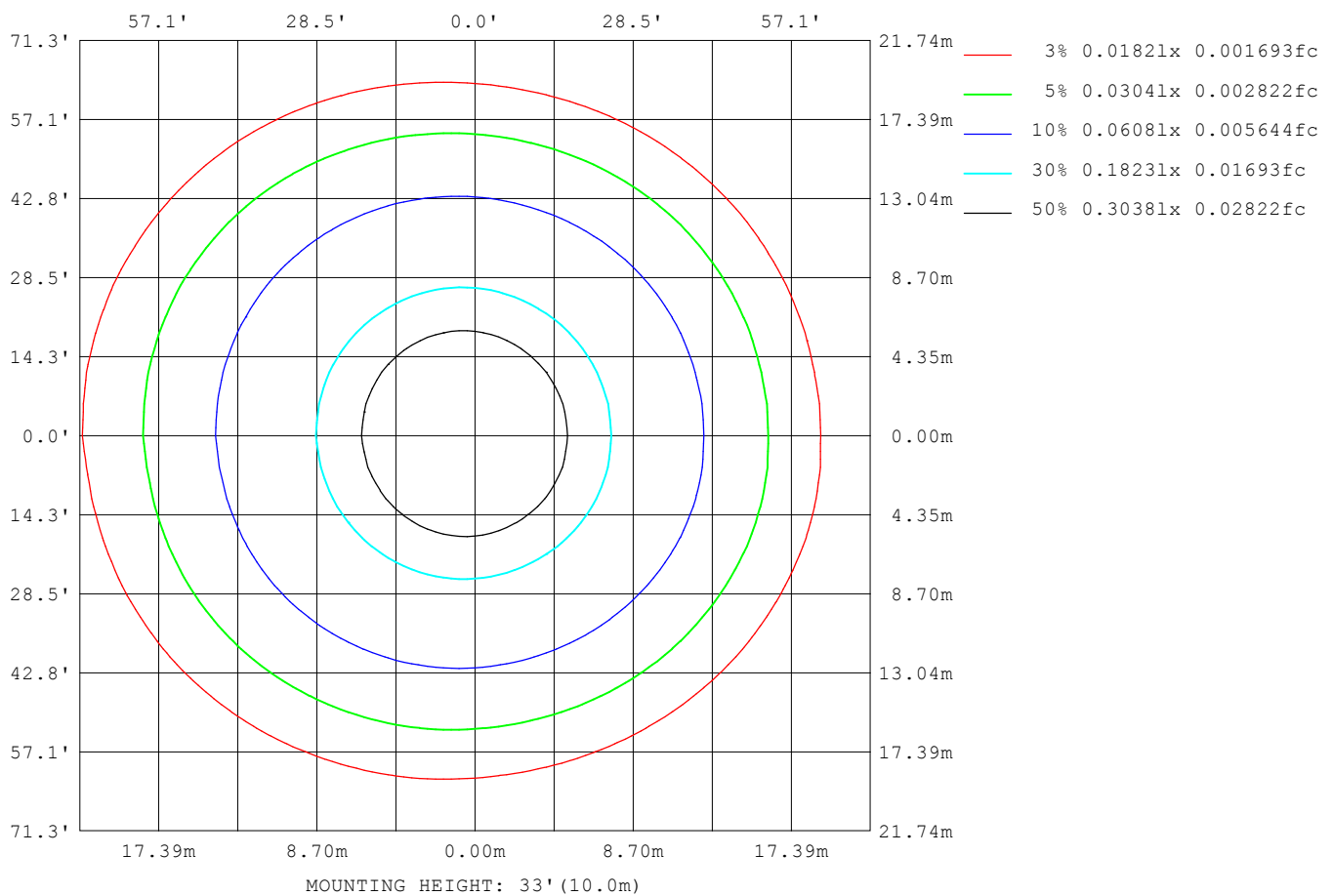


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Test Speed: HIGH
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Operators:QC1
Test Date:2020-11-10

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V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:202010036
MFR.: 中山市泰然光电科技有限公司	SUR.:	PROTECTION ANGLE:

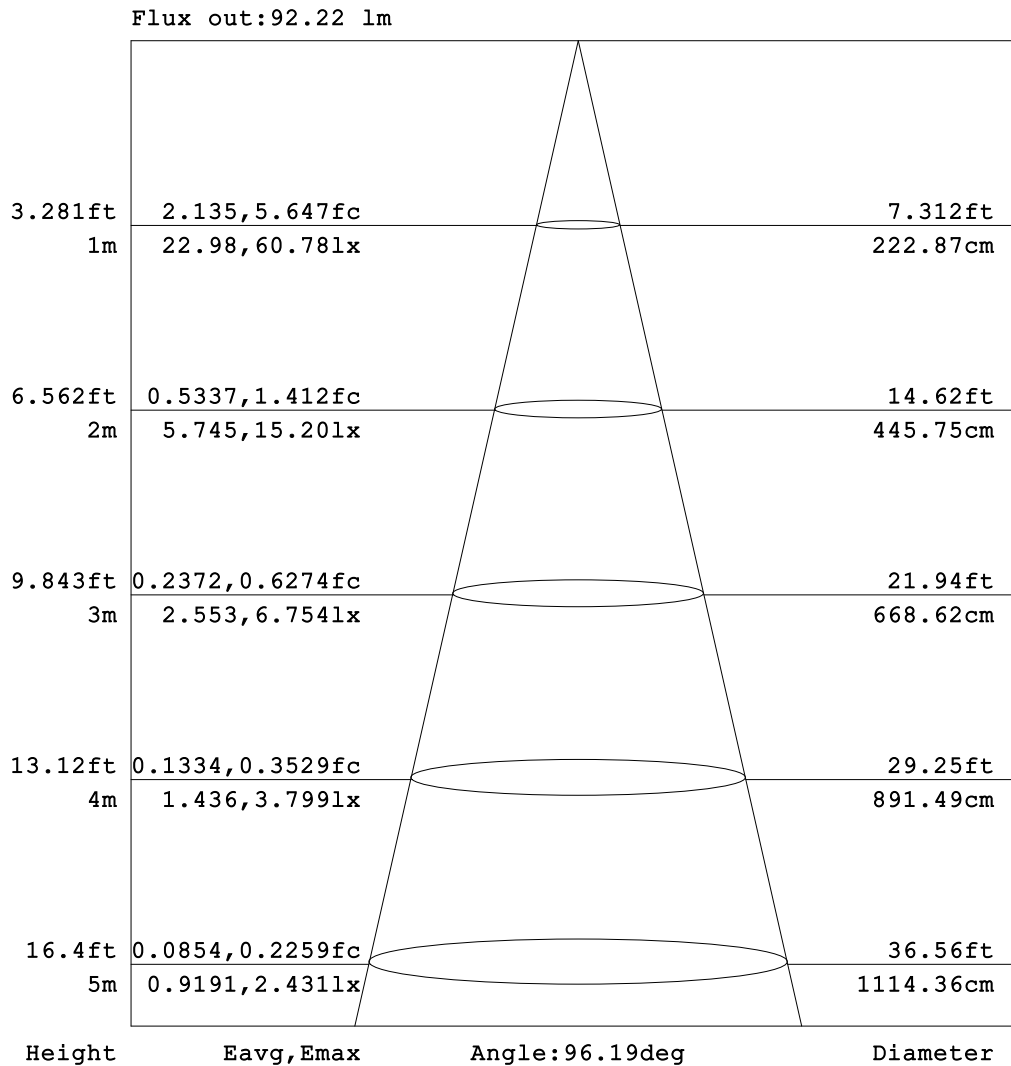


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:23.5DEG
Operators:QC1
Test Date:2020-11-10

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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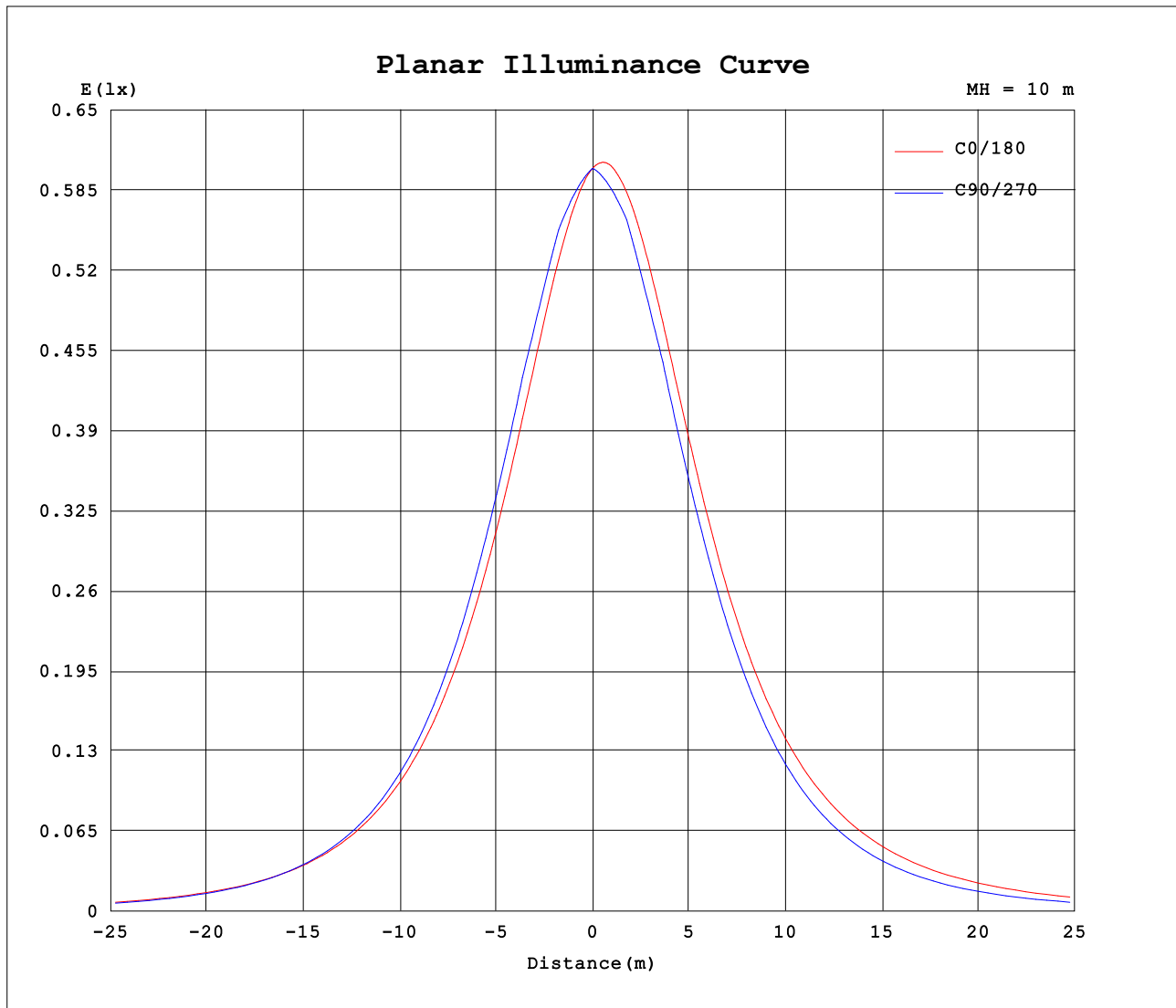


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
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Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.1302A P:3.125W PF:1.000 Lamp Flux:154.198x1 lm		
NAME: LLS-COVE1-W40-8W-24V-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202010036
MFR.: 中山市泰然光电科技有限公司	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H (DEG) V (DEG)	-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	4.06	4.11	5.69	7.18	8.47	8.48	8.47	8.34	8.11	7.83	7.47	7.07	6.64	6.35	6.14	5.83	5.46	5.08	4.82
-75	3.95	4.33	6.08	8.14	9.45	9.75	10.0	10.2	10.2	10.2	10.1	9.90	9.68	9.48	9.32	9.10	8.80	8.38	8.05
-70	3.85	4.55	6.46	9.10	10.4	11.0	11.5	12.0	12.3	12.6	12.7	12.7	12.6	12.5	12.4	12.1	11.7	11.3	11.3
-65	3.78	4.83	7.31	10.1	11.5	12.4	13.2	14.0	14.7	15.2	15.6	15.9	16.1	16.2	16.2	16.1	15.7	15.3	15.3
-60	3.71	5.11	8.16	11.2	12.5	13.7	14.9	16.0	17.0	17.8	18.5	19.1	19.5	19.8	20.0	20.0	20.0	19.7	19.3
-55	3.27	5.59	8.65	11.9	13.5	15.1	16.6	18.0	19.3	20.4	21.4	22.3	23.0	23.5	23.8	24.0	24.0	23.8	23.4
-50	2.83	6.07	9.14	12.7	14.5	16.4	18.2	20.0	21.5	23.0	24.3	25.4	26.4	27.1	27.6	28.0	28.1	27.9	27.5
-45	2.84	6.29	10.3	13.3	15.5	17.7	19.8	21.8	23.7	25.5	27.1	28.5	29.7	30.8	31.5	32.1	32.3	32.2	31.8
-40	2.85	6.52	11.5	14.0	16.5	18.9	21.3	23.6	25.8	27.9	29.8	31.6	33.1	34.4	35.4	36.1	36.5	36.5	36.0
-35	2.98	7.05	11.9	14.6	17.3	20.0	22.6	25.2	27.7	30.1	32.3	34.4	36.3	37.9	39.3	40.2	40.8	40.8	40.3
-30	3.11	7.58	12.3	15.1	18.0	21.0	23.9	26.7	29.5	32.2	34.8	37.2	39.5	41.5	43.1	44.3	45.0	45.0	44.5
-25	3.16	8.56	12.6	15.6	18.7	21.8	24.9	28.0	31.0	34.0	36.9	39.7	42.3	44.6	46.6	48.0	48.8	49.0	48.3
-20	3.20	9.55	12.9	16.0	19.4	22.7	26.0	29.3	32.6	35.8	39.0	42.1	45.0	47.7	50.0	51.7	52.7	52.9	52.2
-15	3.24	9.90	13.1	16.4	19.8	23.3	26.7	30.2	33.6	37.1	40.5	43.9	47.1	50.1	52.6	54.5	55.6	55.8	55.1
-10	3.27	10.3	13.3	16.7	20.3	23.8	27.4	31.0	34.7	38.3	42.0	45.6	49.1	52.4	55.2	57.3	58.6	58.7	57.9
-5	3.29	10.4	13.6	17.0	20.6	24.3	27.9	31.6	35.3	39.0	42.8	46.5	50.2	53.5	56.4	58.6	59.8	60.0	59.1
0	3.32	10.6	13.8	17.3	21.0	24.7	28.4	32.1	35.9	39.8	43.6	47.5	51.2	54.6	57.6	59.8	61.1	61.3	60.3
5	4.66	10.6	13.8	17.3	20.9	24.5	28.2	31.9	35.7	39.5	43.3	47.0	50.7	54.1	57.0	59.1	60.4	60.5	59.5
10	6.01	10.6	13.8	17.2	20.8	24.4	28.1	31.7	35.4	39.2	42.9	46.6	50.2	53.5	56.3	58.4	59.6	59.7	58.8
15	6.22	10.6	13.7	17.1	20.6	24.1	27.6	31.1	34.7	38.2	41.8	45.2	48.5	51.6	54.2	56.0	57.1	57.2	56.2
20	6.44	10.6	13.6	16.9	20.3	23.7	27.1	30.5	33.9	37.3	40.6	43.8	46.9	49.7	52.0	53.7	54.6	54.6	53.7
25	6.51	10.5	13.4	16.5	19.7	23.0	26.2	29.3	32.5	35.6	38.6	41.5	44.2	46.7	48.7	50.1	50.9	50.9	50.0
30	6.58	10.4	13.1	16.1	19.1	22.2	25.2	28.2	31.1	33.9	36.6	39.2	41.6	43.7	45.4	46.6	47.2	47.1	46.4
35	6.57	10.3	12.8	15.6	18.4	21.2	24.0	26.7	29.3	31.8	34.2	36.5	38.5	40.2	41.6	42.6	43.1	42.9	42.3
40	6.56	10.1	12.5	15.1	17.7	20.3	22.8	25.2	27.6	29.8	31.8	33.7	35.3	36.7	37.8	38.6	38.9	38.8	38.2
45	6.59	9.95	12.1	14.4	16.7	19.0	21.3	23.4	25.4	27.3	29.1	30.6	32.0	33.0	33.9	34.4	34.6	34.4	33.8
50	6.62	9.77	11.7	13.7	15.7	17.8	19.7	21.6	23.3	24.9	26.3	27.5	28.6	29.4	29.9	30.3	30.3	30.1	29.5
55	6.62	9.57	11.2	12.9	14.7	16.4	18.1	19.6	21.0	22.3	23.4	24.4	25.1	25.6	26.0	26.1	26.1	25.8	25.3
60	6.63	9.36	10.8	12.2	13.7	15.1	16.4	17.7	18.8	19.7	20.5	21.2	21.6	21.9	22.0	22.0	21.9	21.6	21.1
65	6.66	9.17	10.3	11.5	12.6	13.7	14.7	15.6	16.4	17.1	17.6	18.0	18.2	18.3	18.2	18.0	17.7	17.4	16.9
70	6.69	8.98	9.85	10.7	11.5	12.3	13.0	13.6	14.1	14.5	14.7	14.8	14.8	14.6	14.4	14.0	13.6	13.2	12.7
75	6.67	8.72	9.36	9.93	10.5	10.9	11.3	11.6	11.8	11.9	11.9	11.7	11.5	11.1	10.7	10.2	9.71	9.22	8.82
80	6.64	8.46	8.86	9.15	9.38	9.53	9.61	9.62	9.51	9.30	9.00	8.62	8.17	7.64	7.08	6.46	5.83	5.27	4.90
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
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Test Date:2020-11-10

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Humidity:34%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:202010036
MFR.: 中山市泰然光电科技有限公司	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H (DEG) V (DEG)	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	4.80	4.72	4.72	4.72	4.52	4.32	4.32	4.46	4.62	4.79	4.94	5.11	5.29	5.42	4.77	3.76	2.76	3.02	
-75	7.90	7.75	7.60	7.37	7.08	6.80	6.60	6.48	6.34	6.21	6.07	5.95	5.84	5.75	5.20	3.91	2.80	2.89	
-70	11.0	10.8	10.5	10.0	9.65	9.28	8.89	8.49	8.07	7.63	7.19	6.79	6.40	6.08	5.63	4.07	2.85	2.76	
-65	14.9	14.5	14.1	13.5	13.0	12.4	11.7	11.0	10.3	9.56	8.80	8.06	7.26	6.70	6.09	4.47	3.02	2.70	
-60	18.8	18.3	17.7	17.0	16.3	15.4	14.5	13.6	12.6	11.5	10.4	9.32	8.11	7.32	6.56	4.87	3.20	2.63	
-55	22.8	22.2	21.4	20.5	19.6	18.5	17.3	16.1	14.8	13.5	12.1	10.7	9.23	8.05	6.97	5.28	3.44	2.37	
-50	26.9	26.0	25.1	24.0	22.8	21.5	20.1	18.6	17.1	15.4	13.7	12.0	10.3	8.77	7.38	5.68	3.69	2.11	
-45	31.0	30.0	28.8	27.5	26.0	24.4	22.7	21.0	19.1	17.2	15.3	13.3	11.3	9.48	7.83	6.23	3.81	2.08	
-40	35.2	33.9	32.5	30.9	29.2	27.3	25.4	23.3	21.2	19.0	16.8	14.6	12.4	10.2	8.28	6.78	3.93	2.04	
-35	39.2	37.8	36.1	34.2	32.1	30.0	27.7	25.4	23.0	20.6	18.2	15.7	13.3	10.9	8.71	6.97	4.65	2.09	
-30	43.3	41.7	39.7	37.5	35.1	32.6	30.1	27.5	24.9	22.2	19.5	16.9	14.2	11.6	9.15	7.16	5.36	2.15	
-25	47.0	45.1	42.8	40.2	37.5	34.8	31.9	29.1	26.2	23.4	20.5	17.7	14.8	12.0	9.46	7.33	5.72	2.20	
-20	50.7	48.6	45.9	43.0	40.0	36.9	33.8	30.7	27.6	24.6	21.5	18.5	15.5	12.5	9.77	7.49	6.09	2.24	
-15	53.4	51.0	48.1	44.9	41.6	38.3	35.0	31.7	28.5	25.3	22.1	19.0	15.8	12.8	9.91	7.52	6.06	2.21	
-10	56.1	53.5	50.3	46.9	43.3	39.7	36.2	32.7	29.3	26.0	22.7	19.5	16.2	13.0	10.0	7.56	6.03	2.18	
-5	57.2	54.4	51.1	47.5	43.8	40.2	36.5	33.0	29.5	26.1	22.8	19.5	16.2	13.0	10.0	7.53	6.03	2.32	
0	58.2	55.3	51.9	48.2	44.4	40.6	36.8	33.2	29.7	26.3	22.9	19.6	16.2	13.0	9.98	7.50	6.03	2.46	
5	57.5	54.7	51.3	47.7	43.9	40.2	36.5	33.0	29.5	26.1	22.8	19.4	16.1	12.9	9.91	7.44	6.00	3.33	
10	56.8	54.1	50.8	47.2	43.5	39.9	36.2	32.7	29.3	25.9	22.6	19.3	16.0	12.8	9.84	7.38	5.96	4.21	
15	54.4	51.8	48.7	45.4	42.0	38.5	35.1	31.7	28.4	25.2	21.9	18.7	15.6	12.5	9.61	7.27	5.96	4.37	
20	52.0	49.6	46.7	43.6	40.4	37.1	33.9	30.7	27.5	24.4	21.3	18.2	15.1	12.1	9.37	7.16	5.96	4.53	
25	48.5	46.4	43.8	41.0	38.1	35.2	32.2	29.2	26.3	23.3	20.4	17.4	14.5	11.7	9.08	7.01	5.92	4.53	
30	45.0	43.2	40.9	38.5	35.9	33.2	30.5	27.8	25.0	22.2	19.5	16.7	13.9	11.2	8.79	6.86	5.87	4.53	
35	41.1	39.4	37.5	35.4	33.1	30.7	28.3	25.8	23.3	20.8	18.2	15.6	13.1	10.6	8.40	6.70	5.86	4.57	
40	37.1	35.7	34.0	32.2	30.3	28.2	26.1	23.9	21.6	19.3	16.9	14.5	12.2	9.96	8.01	6.55	5.85	4.61	
45	32.9	31.8	30.4	28.8	27.2	25.4	23.5	21.6	19.6	17.5	15.4	13.3	11.2	9.29	7.59	6.36	5.79	4.62	
50	28.8	27.8	26.7	25.4	24.1	22.6	21.0	19.3	17.6	15.8	13.9	12.1	10.3	8.61	7.18	6.18	5.72	4.62	
55	24.7	23.9	22.9	21.9	20.8	19.6	18.2	16.9	15.4	13.9	12.3	10.8	9.28	7.92	6.80	6.06	5.71	4.67	
60	20.6	19.9	19.2	18.4	17.5	16.6	15.5	14.4	13.2	11.9	10.7	9.45	8.28	7.23	6.42	5.94	5.70	4.71	
65	16.5	16.0	15.4	14.9	14.2	13.5	12.7	11.8	10.9	10.0	9.11	8.21	7.37	6.64	6.11	5.84	5.63	4.67	
70	12.4	12.0	11.7	11.3	10.9	10.4	9.87	9.32	8.72	8.11	7.53	6.96	6.46	6.05	5.81	5.74	5.57	4.63	
75	8.54	8.34	8.17	8.00	7.81	7.60	7.36	7.10	6.84	6.55	6.29	6.05	5.87	5.72	5.63	5.62	5.53	4.64	
80	4.71	4.65	4.65	4.69	4.73	4.79	4.84	4.88	4.96	4.98	5.06	5.14	5.27	5.38	5.45	5.50	5.50	4.65	
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:23.5DEG
Operators:QC1
Test Date:2020-11-10

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:34%
Test Distance:8.300m [K=1.0000]
Remarks: