

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

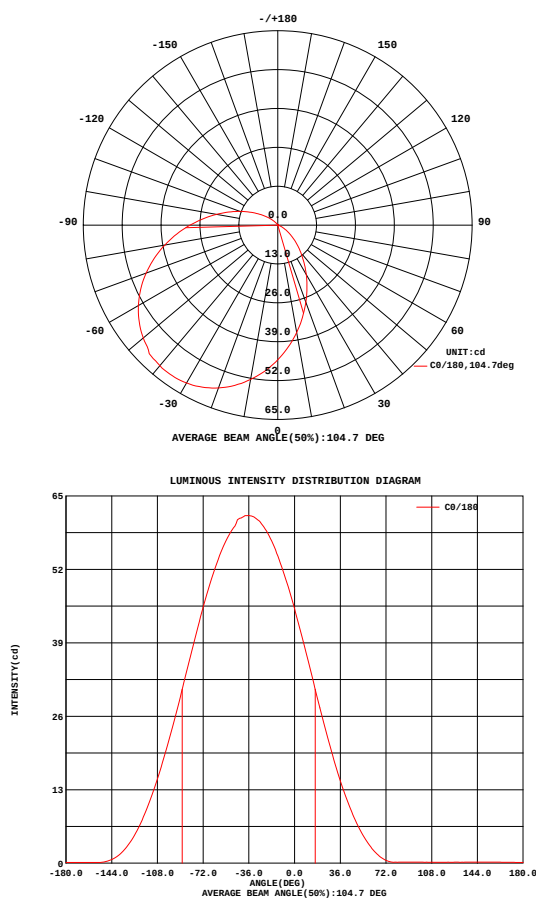


Fig. C0/C180

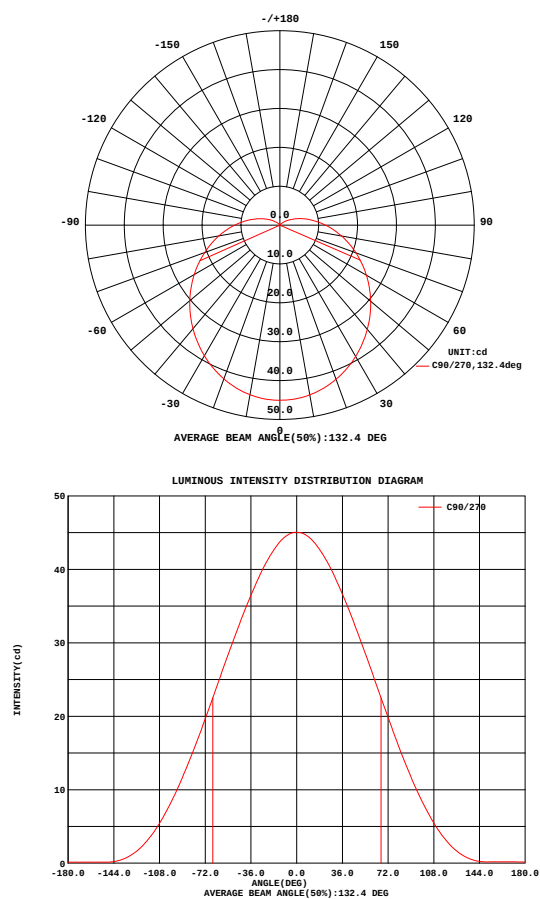


Fig. C90/C270

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YT
Test Date: 2016-12-20

V(B) Range: -180 - 180DEG
V(B) Interval: 0.5DEG
Test System: EVERFINE G0-R3000(2M2D) SYSTEM V2.0.275
Humidity: 65.0%
Test Distance: 1.565m [K=1.0000]
Remarks:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

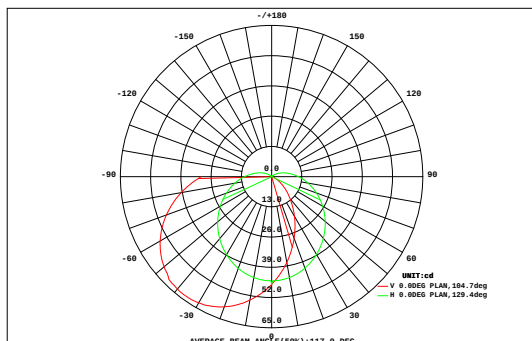
Maximum Intensity (Luminaire orientation as tested.)		313.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	256.5V x 141.0H 145.9V x 104.7H 50.7V x 42.5H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	1000.0 lumens per klm. 961.0 lumens per klm. 616.8 lumens per klm. 127.5 lumens per klm.
	Upward LOR Downward LOR	13.9 % 86.1 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YT
Test Date:2016-12-20

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-R3000(2M2D) SYSTEM V2.0.275
Humidity:65.0%
Test Distance:1.565m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 不锈钢半球LED太阳能感应壁灯	TYPE: ST9087	WEIGHT:
DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff: 70.39lm/W	
MODEL	亿光2835 4000K	Imax(cd)	63.25
NOMINAL POWER(W)		AVAILABILITY(%)	96.0
RATED VOLTAGE(V)		Avai. FLUX(lm)	193.6
NOMINAL FLUX(lm)	201.662	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	201.7
TEST VOLTAGE(V)	3.77	θ @50%(H,V)	105,146DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.08	0.24	0.39	0.50	0.58	0.61	0.59	0.54	0.46	0.36	0.26	0.17	0.09	0.04	0.01	0.00	0.00	0.00	4.92	4.69
90	0.08	0.24	0.39	0.50	0.58	0.61	0.59	0.54	0.46	0.36	0.26	0.17	0.09	0.04	0.01	0.00	0.00	0.00	4.92	4.69
80	0.09	0.26	0.43	0.59	0.69	0.75	0.75	0.70	0.60	0.48	0.36	0.24	0.14	0.06	0.02	0.01	0.00	0.00	6.15	5.95
70	0.09	0.28	0.48	0.67	0.81	0.90	0.91	0.86	0.76	0.61	0.46	0.31	0.18	0.08	0.03	0.01	0.00	0.00	7.44	7.28
60	0.09	0.30	0.52	0.75	0.93	1.05	1.08	1.03	0.91	0.75	0.56	0.38	0.23	0.11	0.04	0.01	0.00	0.00	8.74	8.60
50	0.09	0.32	0.57	0.83	1.04	1.19	1.24	1.20	1.06	0.88	0.66	0.45	0.27	0.13	0.05	0.01	0.00	0.00	9.99	9.86
40	0.09	0.33	0.61	0.89	1.14	1.31	1.39	1.35	1.21	0.99	0.75	0.51	0.30	0.16	0.06	0.02	0.00	0.00	11.1	11.0
30	0.10	0.34	0.64	0.95	1.22	1.42	1.51	1.47	1.33	1.10	0.83	0.56	0.34	0.17	0.07	0.02	0.00	0.00	12.1	12.0
20	0.10	0.35	0.66	0.99	1.29	1.50	1.60	1.57	1.42	1.18	0.89	0.61	0.36	0.19	0.08	0.02	0.00	0.00	12.8	12.7
10	0.10	0.35	0.67	1.01	1.33	1.56	1.66	1.64	1.48	1.22	0.93	0.64	0.39	0.20	0.08	0.02	0.00	0.00	13.3	13.2
0	0.10	0.35	0.66	1.00	1.31	1.53	1.64	1.62	1.47	1.23	0.94	0.64	0.38	0.20	0.08	0.02	0.00	0.00	13.2	13.1
-10	0.10	0.34	0.64	0.97	1.26	1.48	1.59	1.57	1.42	1.19	0.90	0.62	0.38	0.19	0.08	0.02	0.00	0.00	12.7	12.6
-20	0.09	0.33	0.62	0.93	1.21	1.41	1.51	1.48	1.34	1.11	0.85	0.59	0.35	0.18	0.08	0.02	0.00	0.00	12.1	12.0
-30	0.09	0.32	0.59	0.88	1.13	1.31	1.39	1.36	1.22	1.02	0.77	0.53	0.33	0.16	0.07	0.02	0.00	0.00	11.2	11.1
-40	0.09	0.30	0.56	0.81	1.03	1.19	1.25	1.21	1.09	0.90	0.68	0.47	0.29	0.15	0.06	0.02	0.00	0.00	10.1	9.98
-50	0.09	0.29	0.52	0.74	0.93	1.04	1.09	1.05	0.94	0.77	0.58	0.41	0.24	0.13	0.05	0.01	0.00	0.00	8.88	8.75
-60	0.08	0.27	0.48	0.66	0.81	0.90	0.93	0.88	0.78	0.64	0.48	0.33	0.20	0.10	0.04	0.01	0.00	0.00	7.58	7.42
-70	0.08	0.26	0.43	0.58	0.69	0.75	0.76	0.71	0.62	0.51	0.38	0.26	0.15	0.07	0.03	0.01	0.00	0.00	6.29	6.10
-80	0.08	0.24	0.38	0.50	0.58	0.61	0.60	0.55	0.47	0.38	0.28	0.19	0.11	0.05	0.02	0.00	0.00	0.00	5.05	4.81
-90	0.08	0.24	0.38	0.50	0.58	0.61	0.60	0.55	0.47	0.38	0.28	0.19	0.11	0.05	0.02	0.00	0.00	0.00	5.05	4.81
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	1.62	5.45	9.86	14.2	18.0	20.5	21.5	20.8	18.6	15.3	11.6	7.89	4.73	2.38	0.93	0.25	0.04	0.01	174	---
Φ a	1.62	5.45	9.86	14.2	18.0	20.5	21.5	20.8	18.6	15.3	11.6	7.74	4.30	1.62	0.02	0.00	0.00	0.00	---	171

one-half-peak spread: U:73.3,D:73.7 , L:50.7,R:52.7

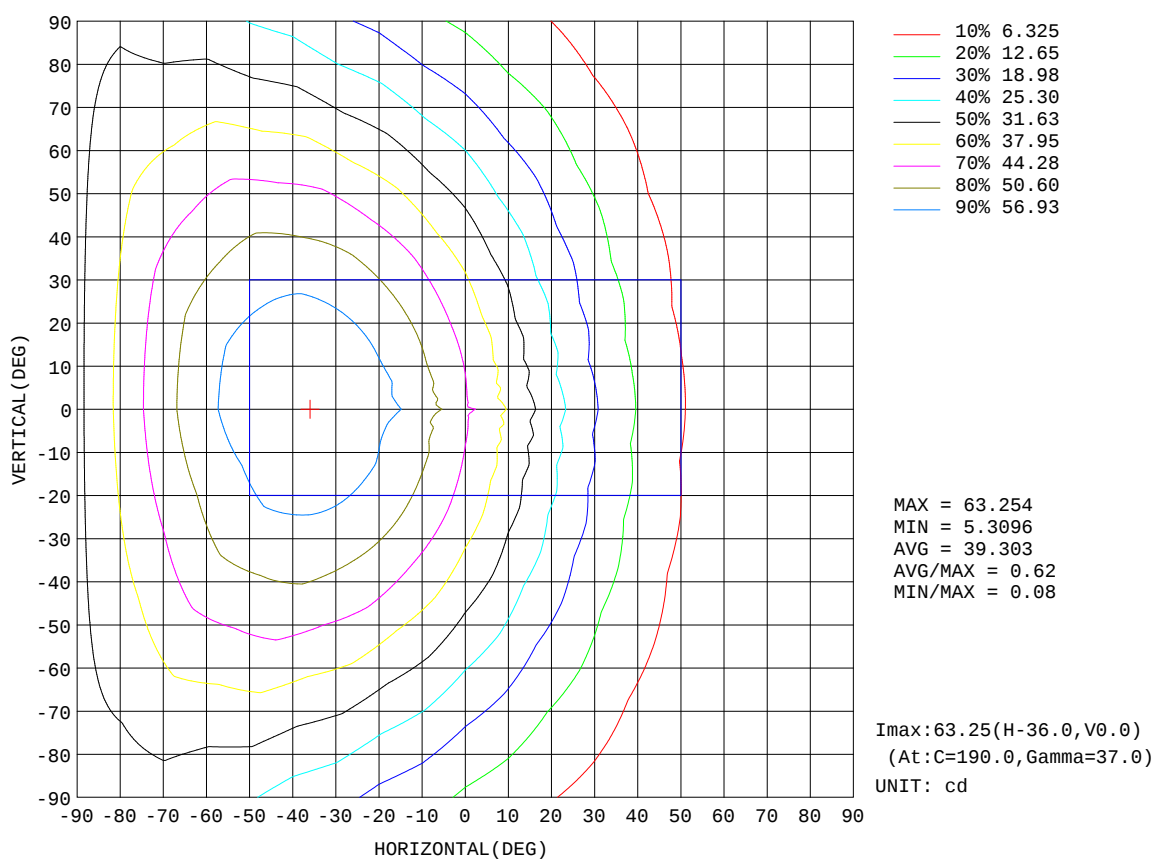
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:YT
 Test Date:2016-12-20

V(B) Range:-180 - 180DEG
 V(B) Interval: 0.5DEG
 Test System:EVERFINE G0-R3000(2M2D) SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:1.565m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: 不锈钢半球LED太阳能感应壁灯	TYPE: ST9087	WEIGHT:
DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	SUR.:	PROTECTION ANGLE:

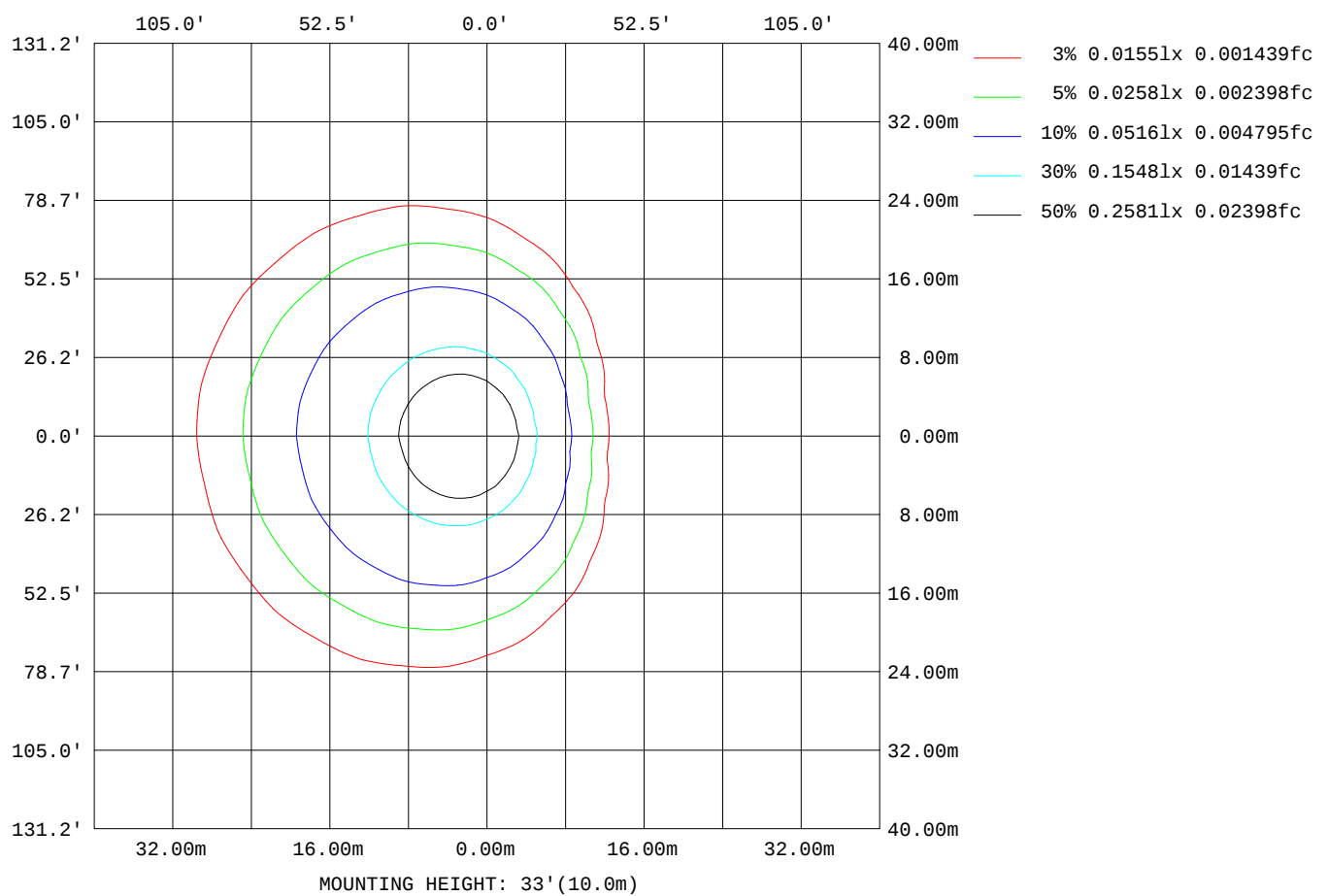


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Humidity: 65.0%
Test Distance: 1.565m [K=1.0000]
Remarks:

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DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	SUR.:	PROTECTION ANGLE:

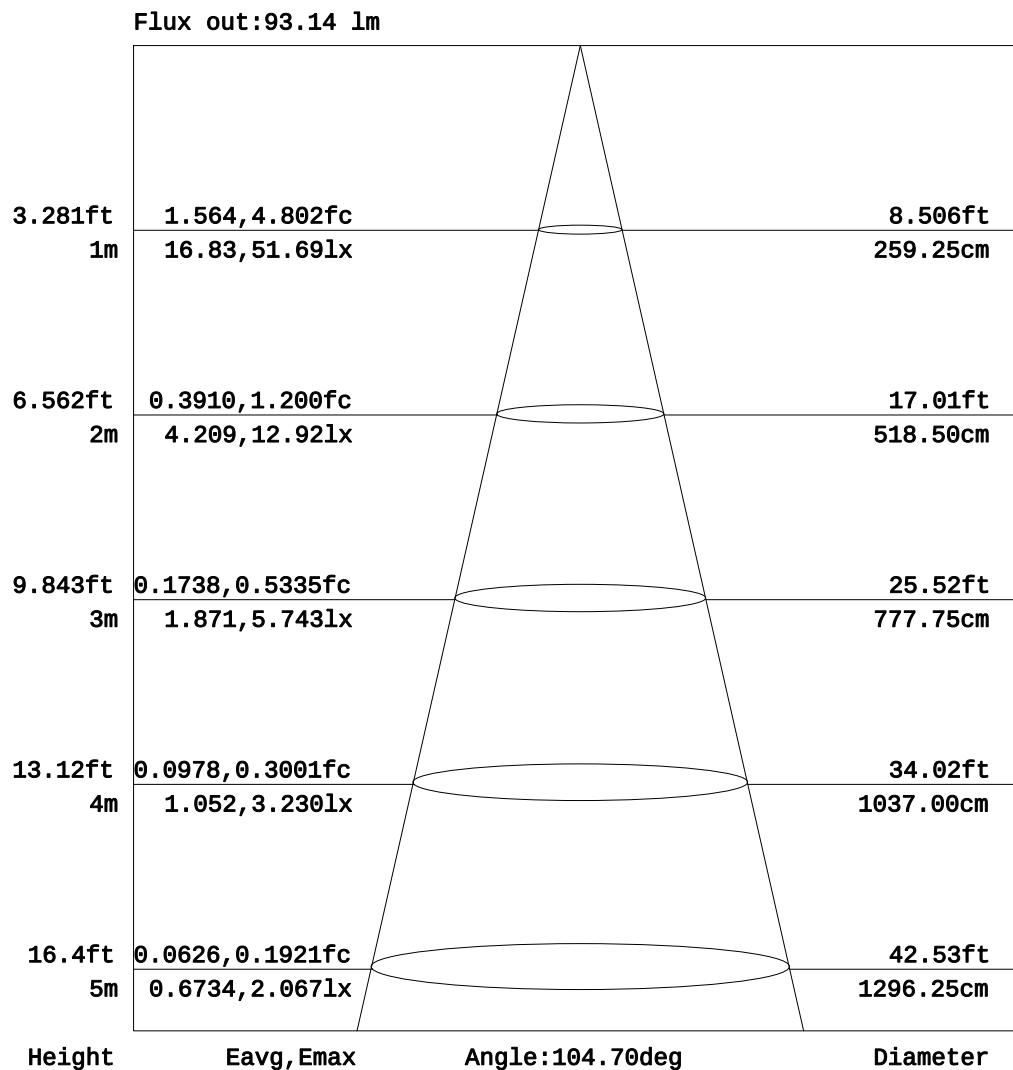


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Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	SUR.:	PROTECTION ANGLE:

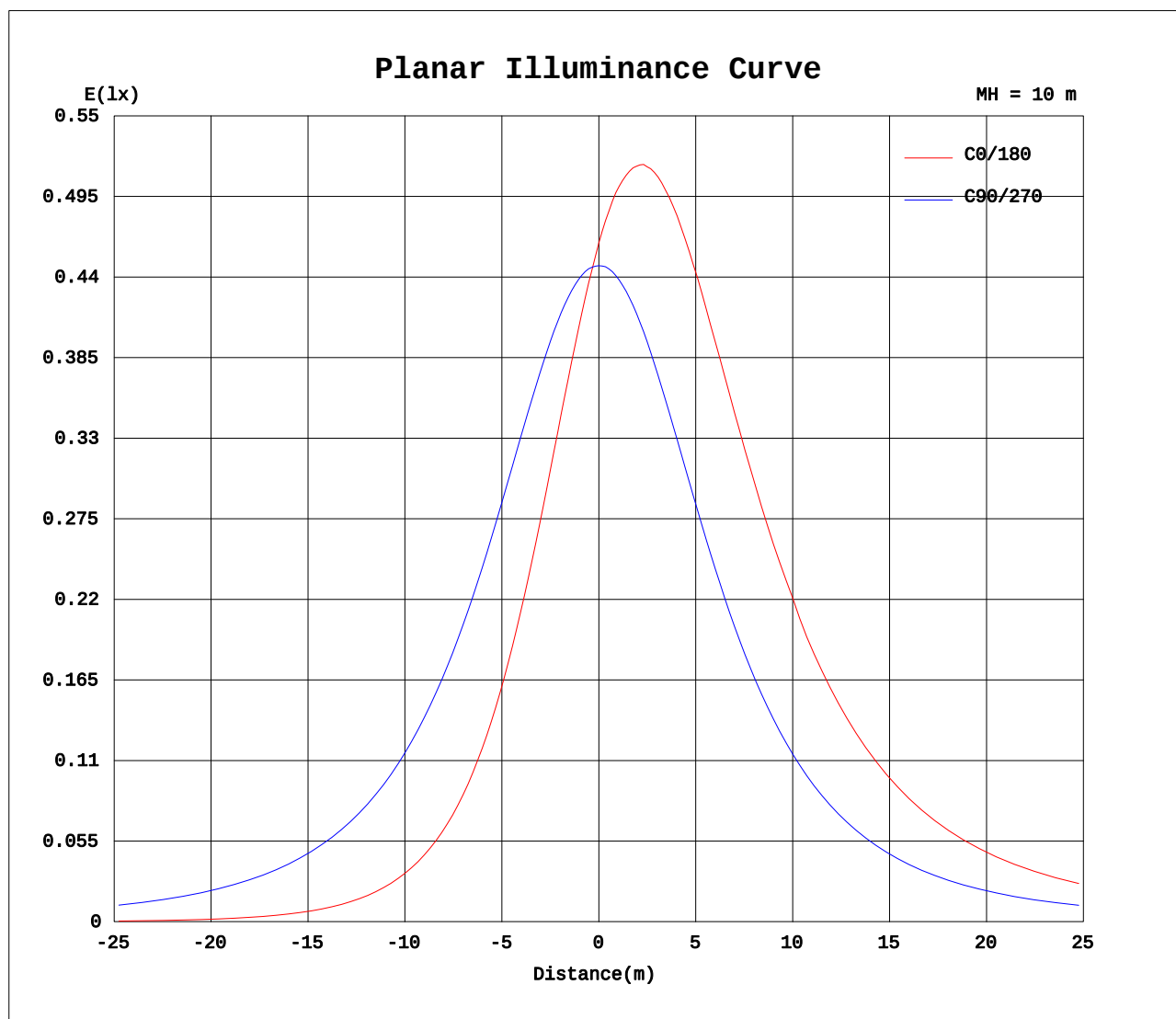


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Planar Illuminance Curve



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DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
V(°)	-180	-170	-160	-150	-140	-130	-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0
-180	30.2	25.7	21.5	17.5	13.9	10.7	7.86	5.51	3.62	2.19	1.18	0.56	0.22	0.13	0.13	0.12	0.12	0.13	0.15
-170	30.2	25.7	21.4	17.5	13.9	10.7	7.95	5.63	3.77	2.34	1.37	0.73	0.36	0.20	0.18	0.18	0.19	0.18	0.18
-160	30.2	25.8	21.7	17.8	14.3	11.2	8.63	6.48	4.69	3.25	2.03	1.13	0.58	0.34	0.20	0.18	0.18	0.18	0.19
-150	30.2	26.0	22.1	18.5	15.2	12.5	10.1	8.06	5.97	4.20	2.84	2.01	1.37	0.78	0.48	0.34	0.20	0.18	0.17
-140	30.2	26.4	22.8	19.5	16.8	14.4	12.1	9.64	7.48	5.89	4.71	3.56	2.50	1.86	1.45	0.97	0.72	0.57	0.38
-130	30.2	26.8	23.7	21.0	18.7	16.7	14.1	11.7	9.90	8.54	7.07	5.59	4.53	3.83	3.01	2.29	1.94	1.56	1.15
-120	30.2	27.4	24.8	22.7	21.0	19.0	16.6	14.5	13.1	11.8	9.95	8.45	7.50	6.54	5.38	4.55	4.00	3.32	2.63
-110	30.2	28.1	26.1	24.7	23.5	21.6	19.6	18.1	16.9	15.3	13.5	12.3	11.3	9.96	8.59	7.66	6.92	5.91	4.91
-100	30.2	28.8	27.5	26.8	26.3	24.7	23.0	22.1	21.2	19.5	17.8	16.8	15.8	14.2	12.6	11.6	10.7	9.30	7.95
-90	30.2	29.5	28.9	29.0	29.2	28.0	26.9	26.4	25.9	24.3	22.8	21.8	20.9	19.2	17.4	16.2	15.1	13.4	11.7
-80	30.2	30.3	30.4	31.3	32.0	31.6	31.0	30.9	30.8	29.6	28.2	27.3	26.4	24.7	22.8	21.4	20.1	18.1	16.0
-70	30.2	31.1	32.0	33.4	34.9	35.3	35.2	35.4	35.7	35.1	34.0	33.1	32.2	30.7	28.6	27.0	25.4	23.1	20.7
-60	30.2	31.9	33.5	35.5	37.6	38.9	39.5	39.9	40.6	40.8	39.9	38.9	38.1	36.8	34.7	32.7	30.9	28.4	25.5
-50	30.2	32.6	34.9	37.4	40.0	42.4	43.6	44.4	45.3	45.9	45.7	44.8	43.8	42.7	40.7	38.3	36.2	33.5	30.3
-40	30.2	33.3	36.2	39.1	42.1	45.0	47.4	48.7	49.6	50.4	50.8	50.4	49.2	48.0	46.4	43.8	41.2	38.4	34.8
-30	30.2	33.8	37.4	40.8	43.9	47.2	50.0	52.3	53.7	54.5	54.9	54.8	54.2	52.7	50.9	48.6	45.6	42.7	38.8
-20	30.2	34.3	38.3	42.2	45.8	49.0	51.9	54.4	56.4	57.8	58.4	58.3	57.7	56.4	54.5	52.2	49.2	45.9	42.0
-10	30.2	34.6	39.0	43.2	47.2	50.7	53.8	56.3	58.3	59.5	60.3	60.5	59.9	58.7	56.9	54.6	51.4	48.0	44.1
0	30.2	34.8	39.4	43.9	48.1	52.0	55.3	58.1	60.4	62.5	63.1	63.2	62.6	61.5	59.6	57.0	53.9	50.3	46.3
10	30.2	34.8	39.3	43.8	47.9	51.6	54.9	57.6	59.8	61.3	61.9	61.7	61.0	59.7	57.5	54.7	51.7	48.0	44.0
20	30.2	34.6	39.0	43.2	47.1	50.7	53.6	55.8	57.4	58.5	59.0	59.0	58.2	56.7	54.7	52.1	49.0	45.5	41.9
30	30.2	34.3	38.3	42.3	45.8	48.5	50.8	52.7	54.2	55.3	55.7	55.1	54.2	52.8	50.7	48.2	45.4	41.8	38.6
40	30.2	33.9	37.5	41.0	43.5	45.6	47.5	49.3	50.6	51.0	50.8	50.3	49.5	47.8	45.7	43.5	40.6	37.5	34.6
50	30.2	33.3	36.4	39.0	40.7	42.4	44.1	45.5	46.0	45.8	45.5	45.1	43.9	42.0	40.3	38.2	35.4	32.7	30.1
60	30.2	32.7	35.1	36.7	37.9	39.0	40.3	41.0	40.7	40.3	40.0	39.4	37.7	36.0	34.5	32.4	29.8	27.5	25.3
70	30.2	32.0	33.7	34.4	34.8	35.5	36.3	36.1	35.4	34.9	34.4	33.2	31.5	30.0	28.7	26.6	24.2	22.4	20.5
80	30.2	31.2	32.3	32.0	31.7	31.9	32.1	31.2	30.1	29.4	28.8	27.2	25.5	24.2	23.0	21.0	18.9	17.4	15.8
90	30.2	30.4	30.7	29.7	28.7	28.4	28.0	26.6	25.1	24.2	23.4	21.7	19.9	18.8	17.6	15.8	14.0	12.8	11.6
100	30.2	29.7	29.2	27.5	25.9	24.9	24.1	22.3	20.5	19.4	18.4	16.6	14.9	13.8	12.8	11.2	9.74	8.78	7.86
110	30.2	28.9	27.6	25.5	23.3	21.7	20.3	18.5	16.5	15.0	13.8	12.3	10.7	9.51	8.62	7.45	6.25	5.49	4.85
120	30.2	28.2	26.2	23.7	21.0	18.7	17.0	15.2	13.0	11.2	9.91	8.72	7.21	6.01	5.27	4.46	3.57	3.01	2.61
130	30.2	27.5	24.9	22.1	19.0	16.2	14.1	12.2	10.2	8.22	6.71	5.66	4.55	3.44	2.79	2.32	1.72	1.34	1.13
140	30.2	26.9	23.8	20.9	17.5	14.4	11.6	9.60	7.85	6.08	4.45	3.29	2.55	1.80	1.18	0.91	0.63	0.43	0.35
150	30.2	26.4	22.9	19.5	16.4	13.1	10.2	7.65	5.77	4.29	3.07	1.92	1.14	0.75	0.44	0.24	0.18	0.13	0.13
160	30.2	26.1	22.2	18.5	15.2	12.1	9.29	6.73	4.63	2.99	1.86	1.11	0.61	0.28	0.14	0.13	0.13	0.14	0.13
170	30.2	25.8	21.7	17.8	14.3	11.2	8.39	6.02	4.14	2.62	1.49	0.73	0.30	0.13	0.13	0.13	0.14	0.13	0.13
180	30.2	25.7	21.5	17.5	13.9	10.7	7.86	5.51	3.62	2.19	1.18	0.56	0.22	0.13	0.13	0.12	0.12	0.13	0.15

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Humidity: 65.0%
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Remarks:

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DIM.:	SPEC.:	SERIAL No.: 2016122001
MFR.: UTEC	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	
-180	0.14	0.16	0.17	0.19	0.18	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.18	0.18	0.18	
-170	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.17	0.18	0.18	0.18	
-160	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.16	0.17	0.18	0.18	0.18	
-150	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.18	
-140	0.34	0.28	0.23	0.22	0.20	0.18	0.17	0.16	0.16	0.15	0.16	0.16	0.15	0.16	0.17	0.18	0.18	0.18	
-130	1.00	0.83	0.63	0.53	0.43	0.34	0.27	0.24	0.20	0.18	0.16	0.15	0.15	0.16	0.16	0.17	0.18	0.18	
-120	2.30	1.97	1.55	1.22	0.98	0.76	0.52	0.40	0.28	0.23	0.18	0.17	0.16	0.16	0.17	0.17	0.18	0.18	
-110	4.34	3.79	3.07	2.40	1.94	1.48	1.05	0.67	0.47	0.30	0.24	0.17	0.17	0.17	0.17	0.18	0.18	0.18	
-100	7.12	6.30	5.27	4.26	3.54	2.82	2.04	1.28	0.91	0.53	0.38	0.21	0.20	0.17	0.17	0.18	0.18	0.18	
-90	10.6	9.42	8.01	6.60	5.60	4.60	3.51	2.42	1.74	1.07	0.71	0.35	0.26	0.18	0.18	0.18	0.18	0.18	
-80	14.5	13.0	11.2	9.35	8.00	6.65	5.18	3.77	2.80	1.88	1.18	0.57	0.39	0.24	0.20	0.18	0.19	0.18	
-70	18.9	16.9	14.6	12.4	10.7	8.89	6.97	5.27	3.98	2.77	1.72	0.93	0.58	0.32	0.22	0.18	0.18	0.18	
-60	23.3	20.9	18.1	15.6	13.4	11.1	8.69	6.86	5.22	3.65	2.22	1.38	0.82	0.43	0.23	0.18	0.18	0.18	
-50	27.7	24.8	21.4	18.8	16.1	13.1	10.5	8.42	6.34	4.38	2.84	1.85	1.06	0.54	0.23	0.17	0.18	0.18	
-40	31.9	28.3	24.8	21.7	18.2	15.0	12.4	9.71	7.15	5.06	3.56	2.27	1.28	0.60	0.22	0.17	0.18	0.18	
-30	35.5	31.2	27.9	23.8	20.1	17.0	13.6	10.4	7.99	5.93	4.10	2.57	1.39	0.60	0.26	0.17	0.18	0.18	
-20	38.2	34.2	29.7	26.0	21.9	17.7	14.5	11.6	8.87	6.35	4.26	2.59	1.42	0.69	0.28	0.18	0.18	0.18	
-10	40.2	35.9	31.2	27.1	23.2	19.0	15.1	11.7	8.70	6.35	4.41	2.84	1.62	0.76	0.29	0.18	0.19	0.18	
0	42.0	37.5	32.9	28.3	23.8	19.6	15.8	12.3	9.36	6.80	4.67	2.97	1.67	0.76	0.27	0.18	0.19	0.18	
10	39.7	35.4	31.2	26.6	21.9	18.3	14.9	11.7	8.93	6.54	4.53	2.89	1.64	0.77	0.28	0.17	0.18	0.18	
20	37.7	33.4	29.6	25.0	21.1	17.7	14.1	10.8	7.97	5.88	4.08	2.59	1.46	0.69	0.26	0.17	0.18	0.18	
30	34.4	31.1	26.7	23.3	19.7	15.8	12.9	10.2	7.63	5.31	3.45	2.22	1.25	0.56	0.22	0.16	0.18	0.18	
40	30.8	27.6	24.2	20.4	17.5	14.5	11.4	8.78	6.74	4.83	3.14	1.78	1.00	0.47	0.18	0.16	0.18	0.18	
50	26.8	23.7	21.0	17.9	14.8	12.4	9.97	7.48	5.51	3.97	2.63	1.54	0.75	0.37	0.18	0.16	0.18	0.18	
60	22.5	19.7	17.4	15.0	12.3	10.1	8.20	6.22	4.31	3.04	2.00	1.19	0.60	0.28	0.18	0.17	0.18	0.18	
70	18.1	15.7	13.9	11.9	9.79	7.83	6.30	4.79	3.30	2.10	1.39	0.82	0.45	0.22	0.17	0.16	0.18	0.18	
80	13.9	11.9	10.5	9.01	7.32	5.68	4.51	3.36	2.27	1.27	0.86	0.50	0.32	0.17	0.16	0.16	0.18	0.18	
90	10.0	8.42	7.36	6.30	5.03	3.76	2.91	2.06	1.36	0.66	0.48	0.30	0.23	0.15	0.16	0.17	0.18	0.18	
100	6.67	5.51	4.75	3.98	3.04	2.13	1.57	1.01	0.67	0.32	0.26	0.19	0.17	0.15	0.16	0.17	0.18	0.18	
110	4.00	3.21	2.69	2.16	1.60	1.09	0.79	0.51	0.36	0.22	0.19	0.16	0.16	0.16	0.16	0.17	0.18	0.18	
120	2.07	1.62	1.36	1.07	0.77	0.57	0.42	0.32	0.22	0.19	0.16	0.16	0.16	0.16	0.17	0.17	0.18	0.18	
130	0.85	0.65	0.55	0.44	0.32	0.27	0.23	0.19	0.16	0.16	0.15	0.15	0.15	0.16	0.17	0.17	0.18	0.18	
140	0.25	0.21	0.19	0.16	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16	0.17	0.17	0.18	0.18	
150	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.18	0.17	0.18	0.18	
160	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.14	0.14	0.15	0.16	0.16	0.16	0.17	0.18	0.18	0.18	
170	0.13	0.13	0.14	0.14	0.14	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.18	0.18	0.18	
180	0.14	0.16	0.17	0.19	0.18	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.18	0.18	0.18	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YT
Test Date:2016-12-20

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-R3000(2M2D) SYSTEM V2.0.275
Humidity:65.0%
Test Distance:1.565m [K=1.0000]
Remarks: