

Test:U:221.3V I:0.0605A P:9.733W PF:0.7266 Lamp Flux:397.977x1 lm		
NAME:Spandau/ Spandau DS 户外灯具	TYPE:10,5W, 3000K	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Ledino	SUR.:	PROTECTION ANGLE:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	320.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	164.1V x 170.4H
	At 50% of Imax	117.4V x 119.1H
	At 90% of Imax	51.0V x 53.6H

Beam Flux	Total	996.0 lumens per klm.
	To 10% of Imax	990.5 lumens per klm.
	To 50% of Imax	749.4 lumens per klm.
	To 90% of Imax	199.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.6 %

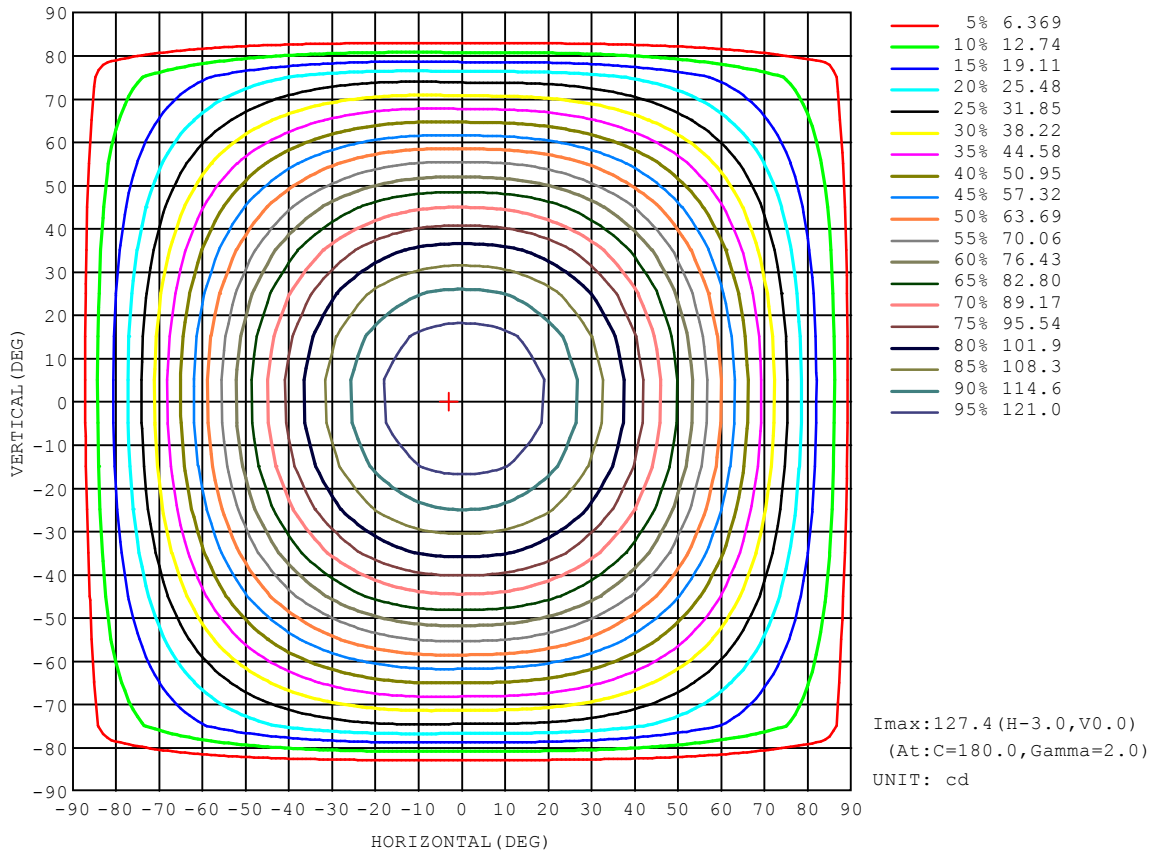
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME :	TYPE :	WEIGHT :
DIM. :	SPEC. :	SERIAL No. :
MFR. :	SUR. :	PROTECTION ANGLE :

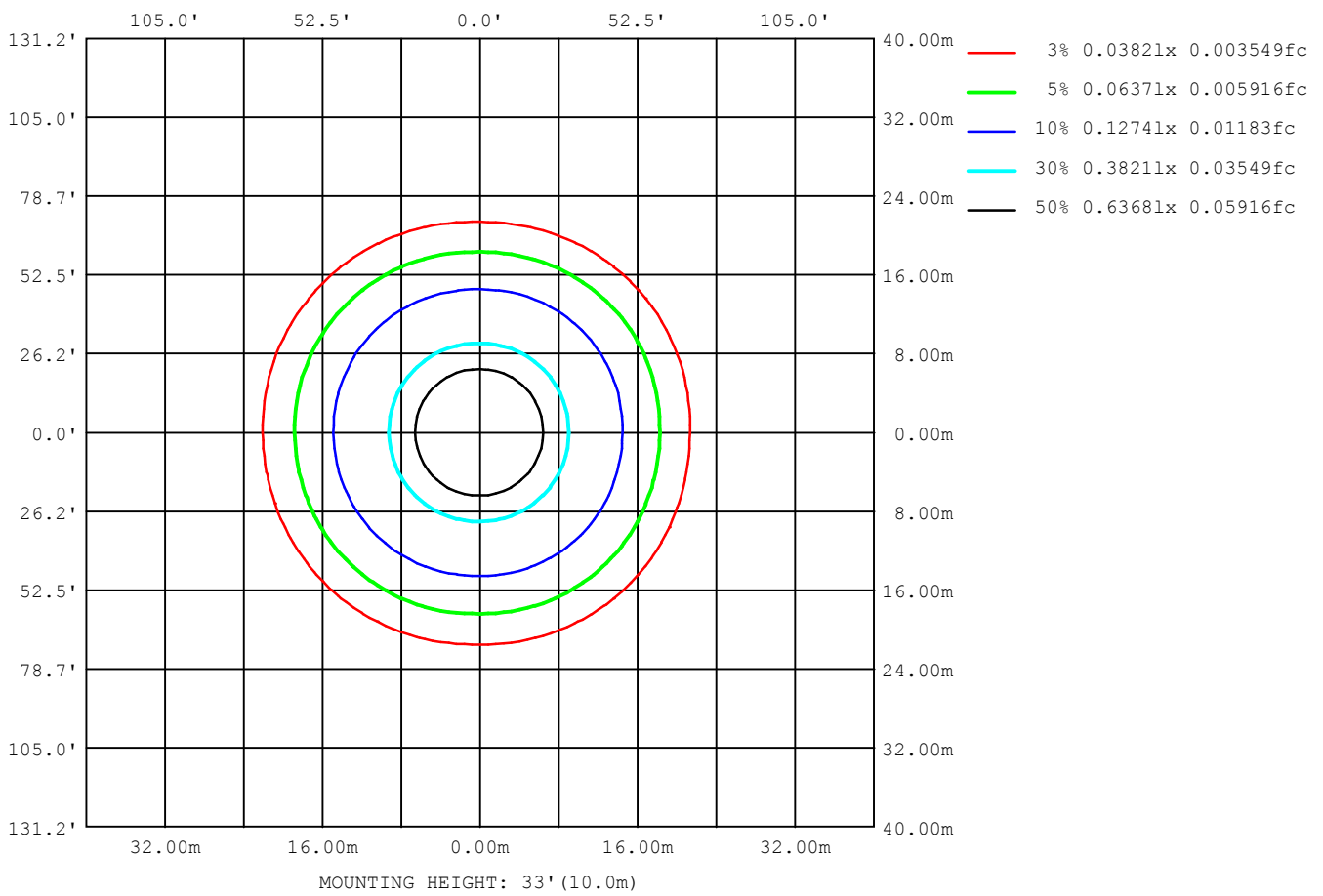


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017-07-15

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:8.635m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME :	TYPE :	WEIGHT :
DIM. :	SPEC. :	SERIAL No. :
MFR. :	SUR. :	PROTECTION ANGLE :

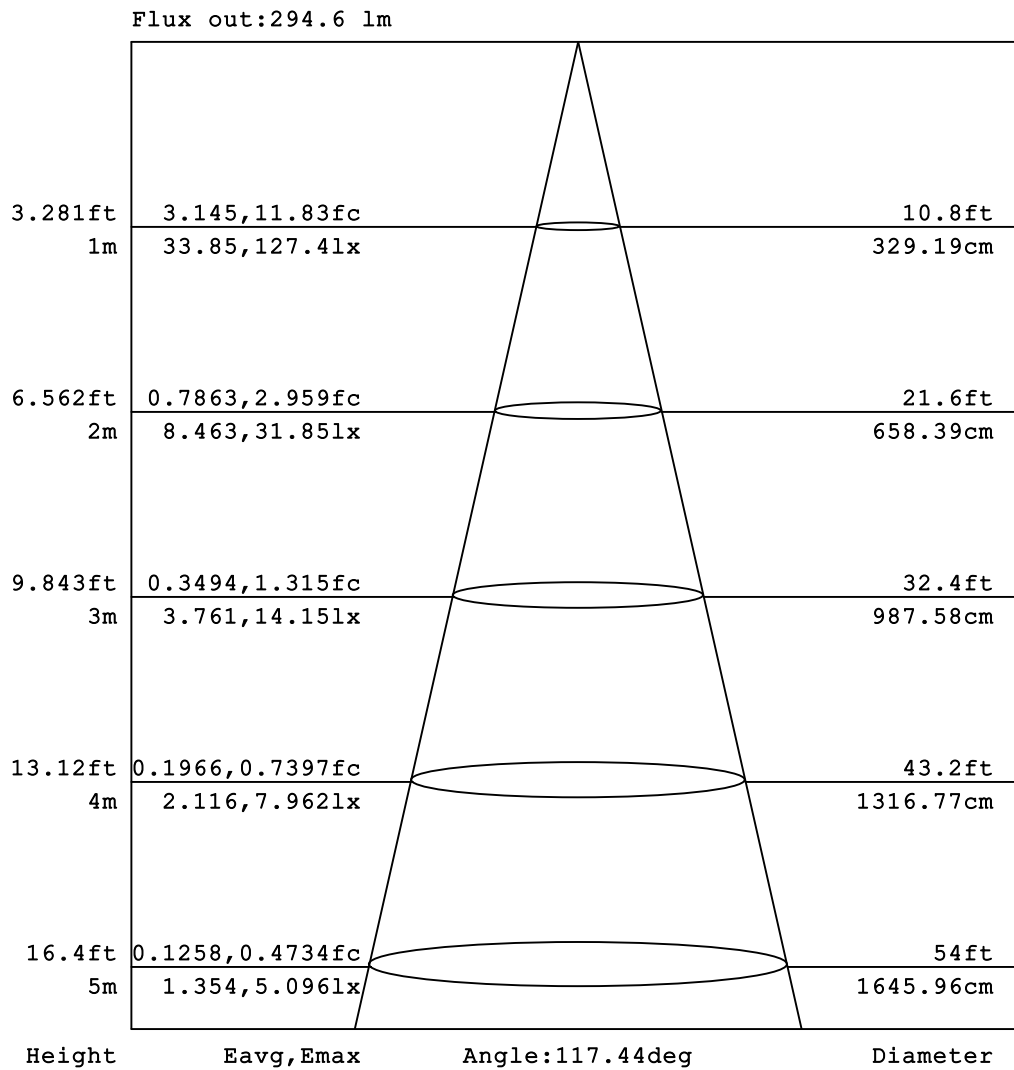


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks:

AAI Figure

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

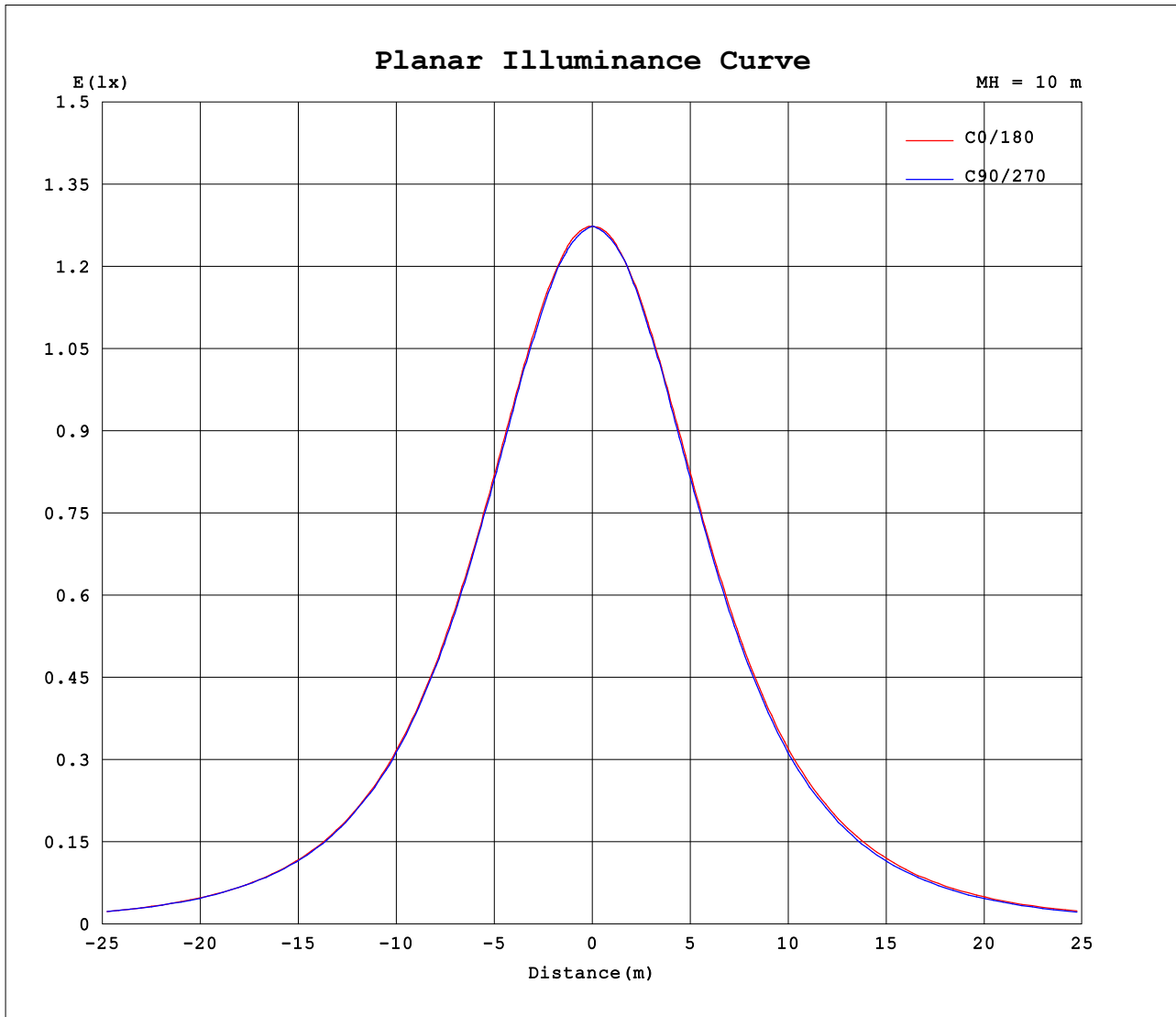


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME :	TYPE :	WEIGHT :
DIM. :	SPEC. :	SERIAL No. :
MFR. :	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	1.06	7.12	9.65	11.1	12.6	14.1	15.5	16.8	18.0	19.1	20.0	20.7	21.2	21.6	21.7	21.7	21.5	21.2	21.0
-75	0.00	5.14	9.97	12.1	14.3	16.5	18.8	20.9	23.0	24.9	26.5	28.0	29.2	30.1	30.8	31.1	31.3	31.2	30.9
-70	1.21	8.68	11.9	14.8	17.7	20.8	23.8	26.7	29.5	32.0	34.3	36.3	37.9	39.2	40.1	40.7	41.0	40.9	40.8
-65	0.00	6.33	11.9	15.3	19.1	23.0	26.9	30.7	34.4	37.8	40.9	43.6	46.0	47.9	49.4	50.4	51.0	51.2	51.1
-60	1.42	10.3	14.5	18.8	23.5	28.3	33.1	37.7	42.1	46.1	49.8	52.9	55.7	57.8	59.5	60.7	61.3	61.5	61.4
-55	0.00	7.60	13.8	18.7	24.1	29.7	35.3	40.8	46.1	50.9	55.3	59.3	62.6	65.5	67.7	69.4	70.4	70.9	70.9
-50	1.54	11.5	16.9	22.8	29.1	35.6	42.0	48.2	54.0	59.3	64.2	68.4	72.0	75.0	77.3	79.0	79.9	80.3	80.3
-45	0.00	8.90	15.6	22.0	28.9	36.1	43.3	50.3	56.8	62.9	68.4	73.4	77.7	81.3	84.1	86.3	87.7	88.4	88.5
-40	1.77	12.5	19.3	26.6	34.5	42.4	50.2	57.7	64.6	71.0	76.8	81.9	86.3	90.0	92.8	94.9	96.1	96.6	96.7
-35	0.00	10.1	17.2	24.9	33.2	41.7	50.2	58.3	65.9	73.0	79.4	85.2	90.2	94.5	97.9	100	102	103	103
-30	1.95	13.3	21.1	29.7	38.8	47.8	56.7	65.1	73.0	80.2	86.8	92.6	97.7	102	105	108	109	110	110
-25	0.00	10.9	18.6	27.3	36.7	46.2	55.5	64.5	72.9	80.8	87.9	94.3	99.9	105	108	111	113	114	115
-20	2.33	14.1	22.8	32.3	42.2	52.1	61.7	70.8	79.3	87.2	94.3	101	106	111	114	117	119	119	119
-15	0.00	11.3	19.6	29.0	39.1	49.3	59.2	68.8	77.7	86.1	93.6	100	106	112	116	119	121	122	122
-10	2.61	14.5	23.6	33.7	44.1	54.5	64.5	74.1	83.0	91.2	98.6	105	111	116	120	123	124	125	125
-5	0.00	11.5	20.1	29.9	40.4	50.9	61.2	71.0	80.2	88.8	96.6	104	110	115	119	123	125	126	126
0	2.99	14.9	24.2	34.4	45.1	55.6	65.8	75.5	84.5	92.8	100	107	113	118	122	125	126	127	127
5	0.00	11.6	20.2	30.1	40.6	51.1	61.4	71.3	80.5	89.1	96.9	104	110	115	120	123	125	126	127
10	3.00	14.7	23.9	34.0	44.5	55.0	65.0	74.6	83.5	91.8	99.2	106	112	117	120	123	125	126	126
15	0.00	11.5	19.9	29.4	39.6	49.9	59.9	69.5	78.5	86.8	94.4	101	107	112	116	120	122	123	123
20	3.05	14.5	23.3	32.9	42.9	52.9	62.5	71.7	80.2	88.1	95.2	102	107	112	115	118	120	120	121
25	0.00	11.3	19.1	27.9	37.4	47.0	56.4	65.4	73.9	81.7	88.9	95.2	101	106	109	112	114	115	116
30	2.80	13.7	21.7	30.4	39.6	48.8	57.7	66.1	73.9	81.2	87.8	93.6	98.6	103	106	108	110	111	111
35	0.00	10.9	17.8	25.6	34.1	42.7	51.1	59.2	66.8	73.9	80.3	86.1	91.1	95.3	98.7	101	103	104	104
40	2.60	13.0	19.9	27.4	35.4	43.4	51.2	58.6	65.6	71.9	77.7	82.7	87.1	90.7	93.5	95.5	96.7	97.3	97.3
45	0.00	10.2	16.2	22.7	29.8	37.0	44.2	51.1	57.7	63.7	69.2	74.1	78.3	81.9	84.7	86.8	88.2	88.8	89.0
50	2.16	12.1	17.5	23.5	29.9	36.5	42.9	49.0	54.7	60.0	64.8	69.0	72.5	75.5	77.7	79.3	80.3	80.6	80.6
55	0.00	9.25	14.3	19.3	24.7	30.3	36.0	41.4	46.6	51.4	55.7	59.5	62.9	65.6	67.8	69.3	70.3	70.7	70.8
60	1.80	11.1	15.0	19.3	24.0	28.7	33.5	38.0	42.3	46.3	49.8	52.9	55.5	57.6	59.2	60.3	60.8	60.9	60.8
65	0.00	7.76	12.3	15.7	19.3	23.1	26.9	30.7	34.2	37.5	40.5	43.1	45.4	47.2	48.6	49.5	50.0	50.2	50.0
70	1.37	9.67	12.3	14.9	17.7	20.6	23.4	26.2	28.8	31.2	33.4	35.2	36.8	37.9	38.8	39.3	39.4	39.3	39.1
75	0.27	5.98	10.4	12.3	14.3	16.3	18.4	20.3	22.2	24.0	25.5	26.8	27.9	28.7	29.3	29.6	29.6	29.5	29.2
80	1.16	7.99	9.98	11.2	12.5	13.7	14.9	16.0	17.1	18.0	18.7	19.3	19.8	20.0	20.1	20.0	19.7	19.4	19.1
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME :	TYPE :	WEIGHT :
DIM. :	SPEC. :	SERIAL No. :
MFR. :	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	21.1	21.3	21.3	21.2	20.9	20.5	19.9	19.1	18.2	17.1	16.0	14.7	13.4	12.1	10.8	9.90	5.56	0.00
-75	30.9	30.9	30.7	30.3	29.7	28.8	27.7	26.3	24.7	22.9	21.0	19.0	16.9	14.8	12.8	11.0	8.51	1.77
-70	40.7	40.5	39.9	39.0	37.8	36.3	34.4	32.2	29.8	27.2	24.5	21.6	18.8	16.0	13.3	10.9	6.31	0.00
-65	51.0	50.7	50.1	49.1	47.6	45.7	43.4	40.7	37.7	34.4	30.8	27.1	23.4	19.7	16.1	12.9	9.60	1.93
-60	61.2	60.6	59.6	58.0	56.0	53.4	50.3	46.9	43.0	38.7	34.3	29.6	25.0	20.5	16.2	12.5	7.18	0.00
-55	70.7	70.2	69.2	67.7	65.5	62.7	59.4	55.6	51.2	46.5	41.3	35.9	30.4	25.0	19.8	15.0	10.9	2.06
-50	80.0	79.2	77.8	75.7	72.9	69.6	65.5	60.9	55.8	50.2	44.1	37.9	31.5	25.3	19.4	14.2	8.57	0.00
-45	88.3	87.7	86.3	84.3	81.5	78.1	73.9	69.1	63.6	57.7	51.2	44.4	37.3	30.2	23.4	17.2	11.9	2.18
-40	96.3	95.2	93.4	90.9	87.5	83.4	78.6	73.0	66.9	60.1	52.9	45.2	37.4	29.6	22.2	15.7	9.76	0.00
-35	103	102	101	98.2	95.0	90.9	86.0	80.4	74.1	67.2	59.7	51.7	43.3	34.9	26.7	19.1	12.8	2.33
-30	109	108	106	103	99.3	94.7	89.2	83.0	76.0	68.4	60.2	51.5	42.5	33.5	24.9	17.2	10.8	0.00
-25	114	113	112	109	105	101	95.4	89.2	82.2	74.5	66.2	57.4	48.1	38.7	29.4	20.7	13.5	2.55
-20	119	118	115	112	108	103	96.8	90.0	82.4	74.2	65.3	55.9	46.2	36.3	26.7	18.1	11.3	0.00
-15	122	121	119	116	112	107	102	95.1	87.7	79.6	70.7	61.3	51.5	41.4	31.3	21.9	14.0	2.89
-10	125	123	121	118	113	108	102	94.5	86.6	78.0	68.8	59.0	48.7	38.3	28.2	19.0	11.6	0.00
-5	126	125	123	120	116	111	105	98.2	90.5	82.2	73.1	63.4	53.2	42.8	32.4	22.6	14.3	3.22
0	127	125	123	119	115	109	103	95.9	87.9	79.2	69.8	59.8	49.4	38.9	28.5	19.1	11.7	0.00
5	127	125	123	120	116	111	105	98.5	90.8	82.4	73.4	63.7	53.5	43.0	32.5	22.7	14.4	3.40
10	126	124	122	118	114	109	102	95.1	87.2	78.6	69.3	59.5	49.2	38.7	28.5	19.2	11.7	0.00
15	123	122	120	117	113	108	103	95.9	88.5	80.3	71.5	62.0	52.1	41.9	31.8	22.3	14.2	3.32
20	120	119	116	113	109	104	97.7	90.9	83.4	75.1	66.2	56.7	46.9	36.9	27.2	18.5	11.5	0.00
25	115	115	113	110	106	102	96.4	90.2	83.2	75.5	67.2	58.3	49.0	39.4	30.0	21.2	13.8	3.05
30	110	109	107	104	100	95.7	90.2	84.0	77.0	69.4	61.2	52.5	43.4	34.3	25.5	17.6	11.3	0.00
35	104	103	101	99.1	95.8	91.8	86.9	81.4	75.1	68.1	60.6	52.6	44.2	35.7	27.4	19.6	13.2	2.67
40	96.9	95.9	94.1	91.6	88.3	84.2	79.4	73.9	67.7	61.0	53.8	46.1	38.2	30.3	22.8	16.1	10.6	0.00
45	88.8	88.1	86.8	84.8	82.1	78.7	74.6	69.8	64.4	58.5	52.0	45.2	38.1	30.9	24.0	17.6	12.3	2.22
50	80.3	79.5	78.1	76.1	73.4	70.1	66.1	61.6	56.5	50.9	44.9	38.6	32.2	25.9	19.9	14.6	9.89	0.00
55	70.6	70.1	69.2	67.6	65.6	62.9	59.6	55.8	51.6	46.8	41.8	36.4	30.9	25.4	20.2	15.4	11.4	1.81
60	60.6	60.1	59.1	57.7	55.7	53.2	50.2	46.8	43.0	38.8	34.4	29.8	25.2	20.7	16.5	12.8	8.30	0.00
65	49.9	49.7	49.1	48.1	46.7	44.9	42.7	40.1	37.1	33.9	30.4	26.8	23.2	19.6	16.1	13.0	10.2	1.49
70	39.1	38.8	38.3	37.6	36.4	35.0	33.2	31.1	28.8	26.3	23.7	21.0	18.3	15.7	13.2	11.0	6.49	0.00
75	29.1	29.1	29.0	28.6	28.0	27.2	26.1	24.8	23.3	21.6	19.9	18.0	16.2	14.3	12.5	10.9	8.78	1.30
80	19.2	19.3	19.3	19.3	19.0	18.6	18.0	17.3	16.5	15.6	14.6	13.6	12.6	11.5	10.5	9.59	5.16	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
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
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Operators:DAMIN
Test Date:2017-07-15

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:8.635m [K=1.0000]
Remarks: