

**LS3080**

LS3080-30W-840-A-x-x-ME-x-x-01-PS

LUM02348\_3

LED: Luxeon TX, 4000K, 80CRI

LED Array: A1661-840XX-L1T2-4080-R

Optics: Lens, RM4074 Medium

Power Supply: High Perfection Tech LP1040-24

Rated Supply: 100-240V/277V 50/60Hz

Test Supply: 240VAC/50Hz, 0.163A, 0.9263PF, 36.2W



Light Output Ratio:	100.0%
Luminaire Power:	36.15 W
90% Beam Spread	9.9V x 9.4H
50% Beam Lumens	520.2 lumens per klm.

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**

**LS3080-30W-840-A-x-x-ME-x-x-01-PS****LUM02348\_3****LED: Luxeon TX, 4000K, 80CRI****LED Array: A1661-840XX-L1T2-4080-R****Optics: Lens, RM4074 Medium****Power Supply: High Perfection Tech LP1040-24****Rated Supply: 100-240V/277V 50/60Hz****Test Supply: 240VAC/50Hz, 0.163A, 0.9263PF, 36.2W****Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

<b>Maximum Intensity</b>	<b>3878.5 cd per klm.</b>
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

<b>Beam Spread</b>	<b>At 10% of Imax</b>	<b>47.8V x 46.3H</b>
	<b>At 50% of Imax</b>	<b>28.4V x 27.4H</b>
	<b>At 90% of Imax</b>	<b>9.9V x 9.4H</b>

<b>Beam Flux</b>	<b>Total</b>	<b>1000.2 lumens per klm.</b>
	<b>To 10% of Imax</b>	<b>848.7 lumens per klm.</b>
	<b>To 50% of Imax</b>	<b>520.2 lumens per klm.</b>
	<b>To 90% of Imax</b>	<b>81.6 lumens per klm.</b>

<b>Upward LOR</b>	<b>0.7 %</b>
<b>Downward LOR</b>	<b>99.3 %</b>

<b>Luminaire Efficiency (Light Output Ratio)</b>	<b>100.0 %</b>
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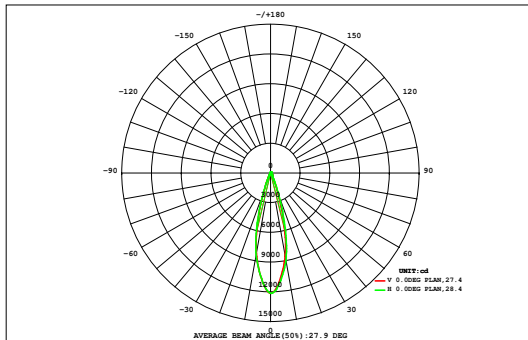
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

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**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	Shielding Angle:



DATA OF LAMP		Eff:86.54lm/W	
MODEL	A1661-840XX	Imax (cd)	12133
NOMINAL POWER (W)	30	AVAILABILITY (%)	84.8
RATED VOLTAGE (V)	24	Avai. FLUX (lm)	2652
NOMINAL FLUX (lm)	3128.35	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	3128
TEST VOLTAGE (V)	240	θ @50% (H,V)	27,28DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.11	0.18	0.26	0.35	0.45	0.56	0.66	0.75	0.80	0.81	0.76	0.68	0.58	0.47	0.37	0.27	0.19	0.12	8.37	0.00
45	0.11	0.18	0.26	0.35	0.45	0.56	0.66	0.75	0.80	0.81	0.76	0.68	0.58	0.47	0.37	0.27	0.19	0.12	8.37	0.00
40	0.17	0.25	0.36	0.51	0.69	0.89	1.11	1.32	1.43	1.43	1.32	1.14	0.94	0.73	0.54	0.39	0.27	0.17	13.6	0.00
35	0.22	0.33	0.50	0.74	1.06	1.47	2.00	2.49	2.79	2.79	2.51	2.06	1.58	1.17	0.80	0.54	0.36	0.23	23.6	0.00
30	0.27	0.43	0.69	1.12	1.73	2.64	3.80	5.01	5.86	5.75	4.99	3.94	2.78	1.88	1.21	0.74	0.47	0.29	43.6	0.00
25	0.33	0.54	0.93	1.60	2.73	4.58	7.26	10.7	13.3	12.8	10.3	7.55	4.94	3.01	1.78	1.01	0.59	0.36	84.4	42.7
20	0.38	0.65	1.19	2.22	4.23	8.14	14.7	23.6	30.5	29.8	23.5	15.7	9.10	4.76	2.52	1.32	0.71	0.41	173	146
15	0.42	0.75	1.43	2.86	6.32	14.4	28.2	43.6	54.6	55.0	45.6	30.7	16.2	7.22	3.28	1.60	0.83	0.46	313	291
	0.45	0.82	1.59	3.39	8.30	21.2	42.3	61.9	73.9	75.2	64.7	44.9	23.3	9.57	3.96	1.81	0.92	0.50	439	418
	0.47	0.85	1.68	3.72	9.25	24.5	49.2	70.9	85.8	87.2	73.1	51.7	26.9	10.7	4.27	1.88	0.96	0.51	503	485
	0.47	0.84	1.63	3.63	8.99	23.5	47.8	69.4	84.2	85.1	71.3	50.5	25.8	10.1	4.07	1.84	0.94	0.51	491	470
	0.45	0.79	1.48	3.13	7.57	19.4	40.0	59.5	70.7	70.8	60.5	42.4	21.5	8.60	3.54	1.70	0.87	0.48	413	393
-15	0.41	0.70	1.29	2.51	5.52	12.9	25.7	40.1	50.2	51.1	41.4	27.3	14.2	6.27	2.87	1.47	0.78	0.44	285	263
-20	0.37	0.60	1.05	1.90	3.53	6.87	12.3	19.1	25.6	27.1	21.2	13.4	7.62	3.99	2.15	1.18	0.66	0.39	149	121
-25	0.32	0.50	0.82	1.35	2.18	3.51	5.46	7.74	9.93	10.8	8.81	6.06	3.90	2.42	1.49	0.90	0.54	0.34	67.0	21.9
-30	0.26	0.40	0.61	0.94	1.37	1.93	2.64	3.36	3.94	4.14	3.68	2.88	2.08	1.47	1.01	0.65	0.43	0.27	32.0	0.00
-35	0.21	0.31	0.45	0.63	0.87	1.13	1.40	1.66	1.85	1.88	1.73	1.47	1.18	0.91	0.67	0.47	0.33	0.21	17.4	0.00
-40	0.16	0.23	0.33	0.44	0.57	0.70	0.83	0.95	1.02	1.03	0.97	0.86	0.73	0.60	0.46	0.34	0.24	0.16	10.6	0.00
-45	0.11	0.17	0.23	0.31	0.39	0.47	0.53	0.59	0.62	0.62	0.59	0.55	0.48	0.40	0.32	0.24	0.17	0.11	6.90	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45			
Φ t	5.59	9.34	16.5	31.3	65.7	149	286	423	517	523	437	304	164	74.3	35.3	18.4	10.2	5.98	3075	---
Φ a	0.00	0.00	0.00	0.00	21.3	120	260	399	494	500	413	278	135	31.2	0.00	0.00	0.00	0.00	---	2652

one-half-peak spread: U:14.4,D:14.2 , L:13.6,R:14.0

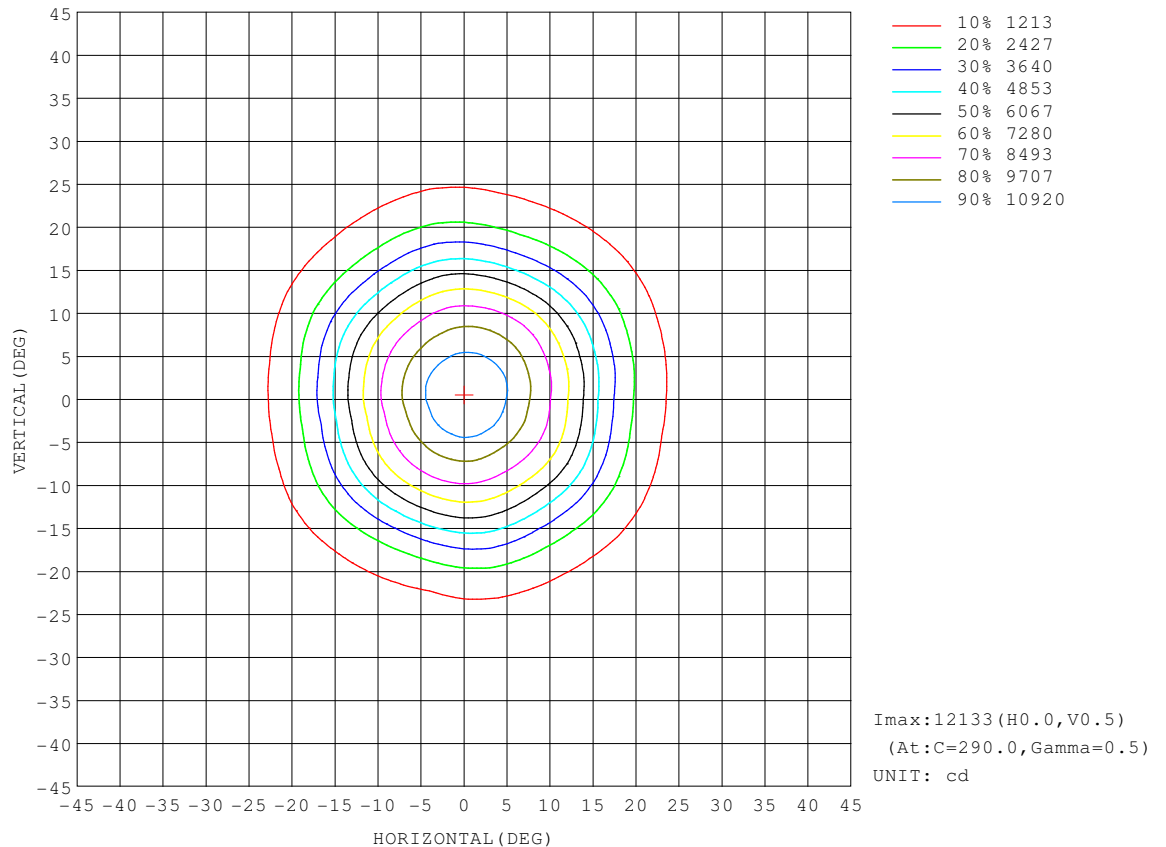
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25 DEG  
Operators:David  
Test Date:2015-10-21

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351  
Humidity:45.0%  
Test Distance:16.000m [K=1.0000]  
Remarks: LUM02348\_3  
LS3080-30W-840-A-x-x-ME-x-x-01-PS

**ISOCANDELA DIAGRAM**

Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	Shielding Angle:

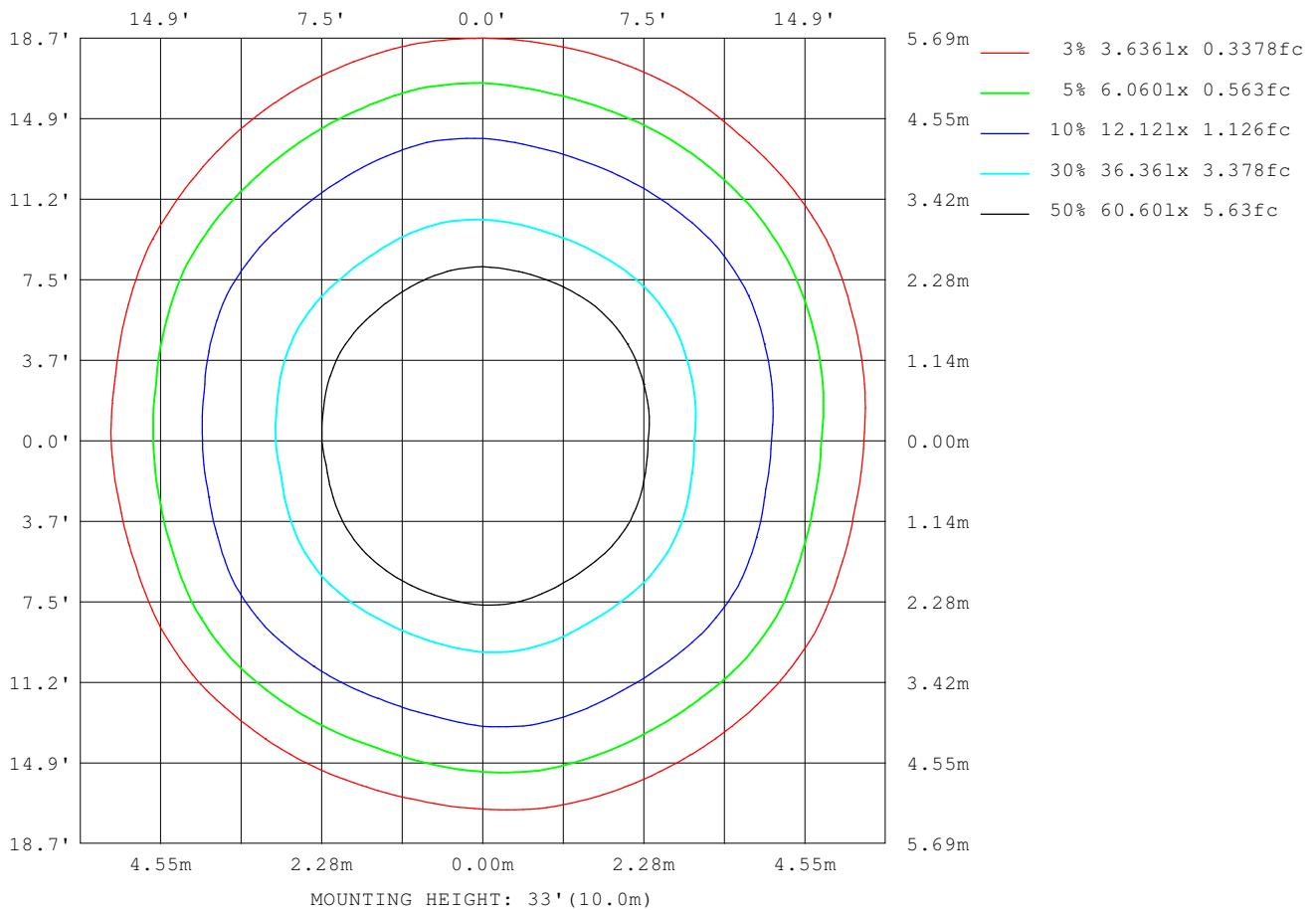


**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**

**ISOLUX DIAGRAM**

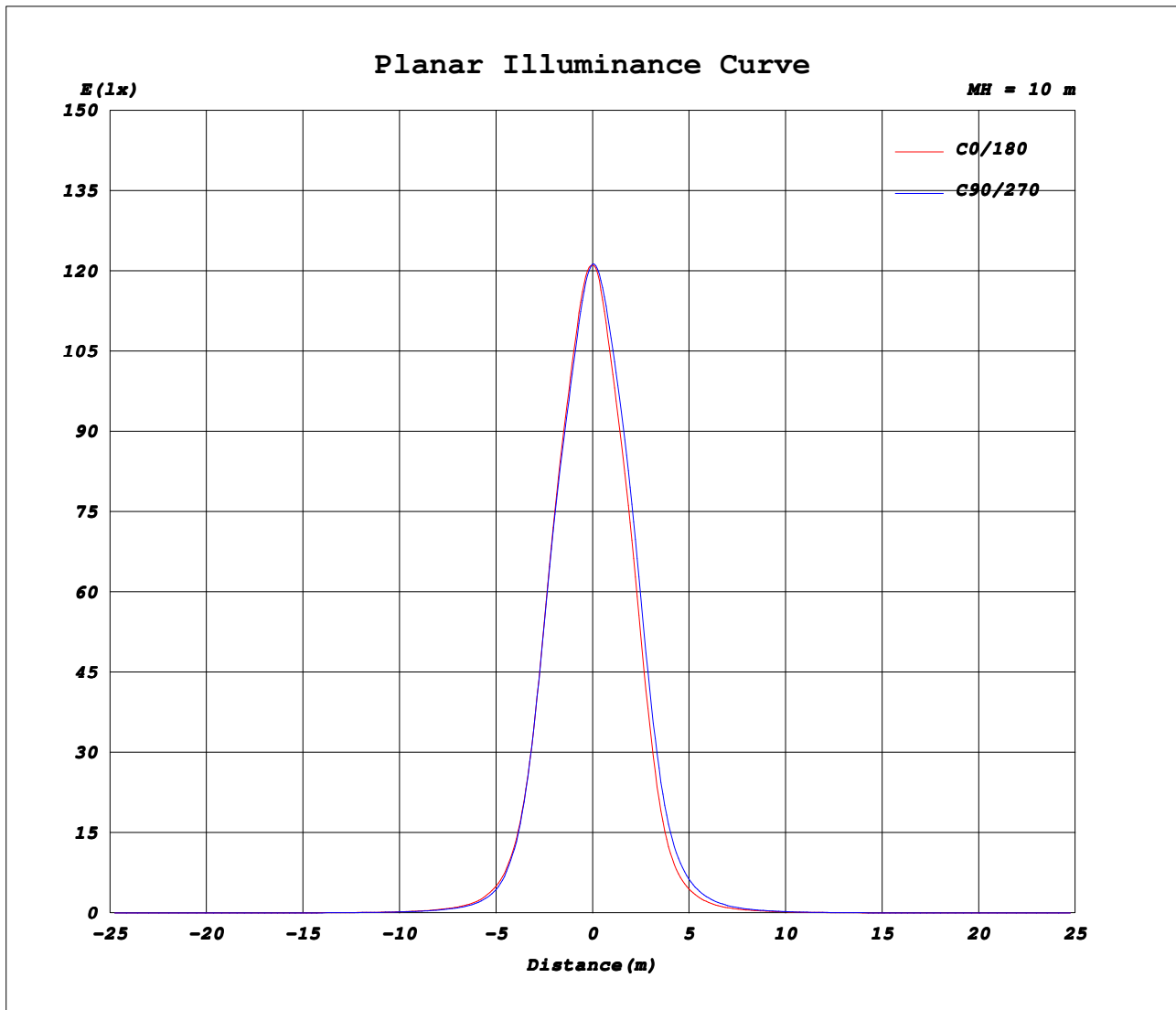
Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	Shielding Angle:



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**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

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**Planar Illuminance Curve**

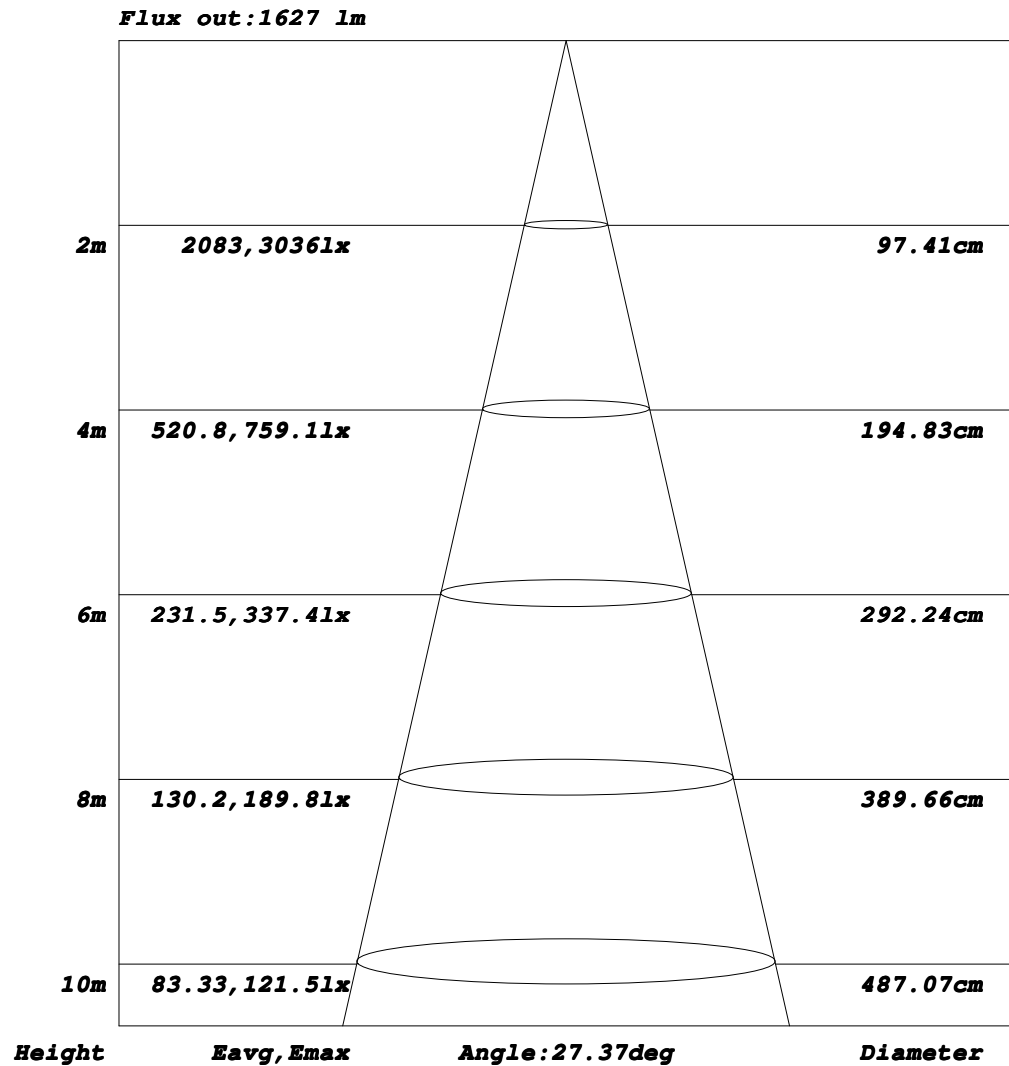


**H(β) Range: -90 - 90DEG**  
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**Test Speed: HIGH**  
**Temperature: 25 DEG**  
**Operators: David**  
**Test Date: 2015-10-21**

**V(B) Range: -180 - 180DEG**  
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**Test System: EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity: 45.0%**  
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**LS3080-30W-840-A-x-x-ME-x-x-01-PS**

**AAI Figure**

Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	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**  
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**Test Speed: HIGH**  
**Temperature:25 DEG**  
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**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	Shielding Angle:

Table--1

 UNIT:  $\mu\text{A10cd}$ 

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.72	1.77	4.13	9.72	9.46	7.42
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.51	1.63	3.96	6.97	7.98
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.51	0.85	1.00
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
-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
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.28	0.49	0.70	0.90	1.08	1.17	1.20
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.53	1.04	1.60	2.13	2.67	3.18	3.59	3.93	4.14	4.20
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.07	1.87	2.83	3.78	4.94	6.04	7.24	8.34	9.33	10.1	10.4
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.14	2.24	3.46	4.98	6.86	9.47	13.4	17.6	22.4	27.9	32.2	34.9
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.91	3.30	5.05	7.40	11.2	18.3	29.9	50.2	83.4	133	181	225
-10	0.00	0.00	0.00	0.00	0.00	0.14	1.08	2.47	4.06	6.18	9.52	16.0	29.0	58.7	142	328	574	765	841
0	0.00	0.00	0.00	0.00	0.00	0.21	1.23	2.64	4.34	6.51	10.6	18.4	36.6	81.0	207	498	829	1069	1211
10	0.00	0.00	0.00	0.00	0.00	0.15	1.09	2.48	4.03	6.26	9.78	17.1	32.5	66.1	159	360	607	808	896
20	0.00	0.00	0.00	0.00	0.00	0.01	0.74	1.92	3.31	5.11	7.72	12.5	21.1	36.1	62.5	105	170	242	268
30	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.15	2.30	3.56	5.20	7.41	10.9	16.0	22.6	31.9	41.4	49.6	52.4
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.07	1.97	2.99	4.13	5.46	7.00	8.80	10.5	12.3	13.6	14.0
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.53	1.05	1.67	2.30	2.98	3.49	4.03	4.36	4.61	4.69
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.27	0.48	0.70	0.91	1.09	1.19	1.22
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	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
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.33	0.73	1.18	1.58	1.76
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.47	1.19	2.47	4.87	8.01	8.80
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.72	1.77	4.13	9.72	9.46	7.50

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**



**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:239.2V I:0.1632A P:36.15W PF:0.9263 Lamp Flux:3128.35x1 lm		
NAME: LS3080	TYPE:LED Inground Uplight	WEIGHT:
SPEC.:LS3080-30W-840-A-x-x-ME-x-x-01-PS	DIM.: Ø240 x 290mm	SERIAL No.:
MFR.: LUMASCAPE	SUR.:Glass	Shielding Angle:

Table--2

 UNIT:  $\mu$ A10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	9.76	7.82	3.29	1.03	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	6.66	3.94	1.67	0.48	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-160	0.89	0.59	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-100	0.00	0.00	0.00	0.00	0.00	0.00	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	
-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	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	1.17	1.07	0.91	0.71	0.50	0.29	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	4.16	3.99	3.66	3.26	2.80	2.17	1.62	1.06	0.55	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-40	10.2	9.54	8.69	7.61	6.28	5.12	3.90	2.89	1.93	1.11	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-30	34.0	29.2	23.7	18.4	14.1	10.1	7.27	5.14	3.56	2.28	1.19	0.33	0.00	0.00	0.00	0.00	0.00	0.00	
-20	208	145	92.2	56.1	33.7	20.4	12.4	7.88	5.26	3.38	1.92	0.79	0.01	0.00	0.00	0.00	0.00	0.00	
-10	771	595	355	159	66.9	33.4	18.1	10.2	6.58	4.16	2.52	1.14	0.16	0.00	0.00	0.00	0.00	0.00	
0	1087	853	527	230	91.2	40.4	20.7	11.7	7.00	4.57	2.69	1.27	0.23	0.00	0.00	0.00	0.00	0.00	
10	836	649	393	180	77.1	36.8	19.2	11.0	6.67	4.31	2.55	1.16	0.17	0.00	0.00	0.00	0.00	0.00	
20	228	171	114	69.0	40.5	23.4	13.6	8.46	5.52	3.49	2.03	0.82	0.02	0.00	0.00	0.00	0.00	0.00	
30	49.3	42.9	32.9	24.3	17.6	11.9	8.15	5.67	3.75	2.40	1.22	0.34	0.00	0.00	0.00	0.00	0.00	0.00	
40	13.6	12.4	10.9	9.24	7.40	5.79	4.33	3.17	2.04	1.15	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50	4.74	4.54	4.11	3.62	3.01	2.40	1.75	1.14	0.57	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
60	1.20	1.09	0.91	0.73	0.49	0.30	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	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	
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	1.58	1.22	0.78	0.34	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	7.57	4.72	2.55	1.28	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	9.76	7.82	3.29	1.03	0.21	0.00	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( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25 DEG**  
**Operators:David**  
**Test Date:2015-10-21**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-R3000\_V2 SYSTEM V2.0.351**  
**Humidity:45.0%**  
**Test Distance:16.000m [K=1.0000]**  
**Remarks: LUM02348\_3**  
**LS3080-30W-840-A-x-x-ME-x-x-01-PS**