

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334477

Luminaire Tested: **S122IP-S725U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S725U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 725 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

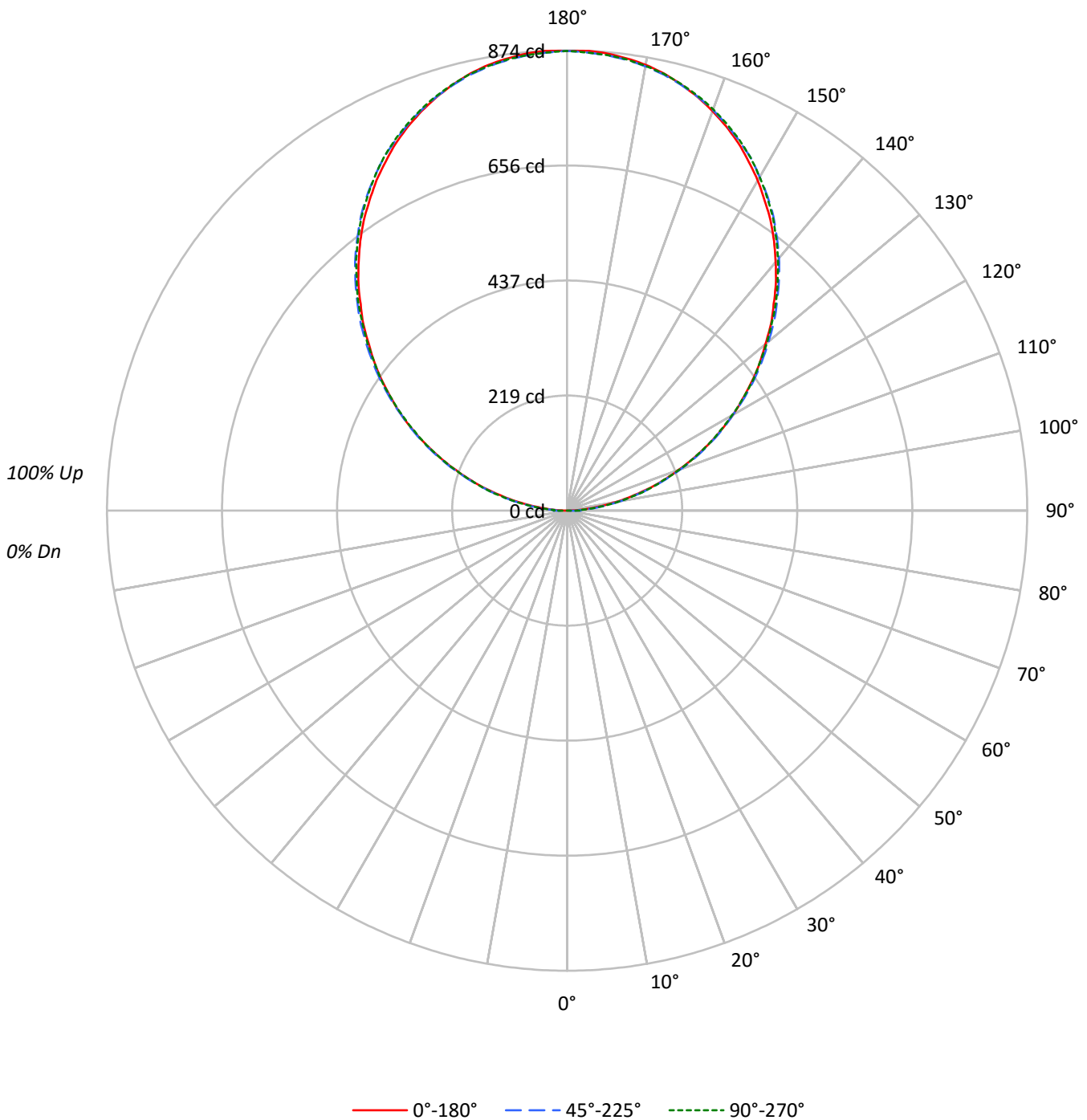
Lumens per Lamp: N/A
Luminaire Lumens: 2443.3 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.5	0.1
90°-100°	54.0	2.2
100°-110°	171.7	7.0
110°-120°	293.8	12.0
120°-130°	386.4	15.8
130°-140°	433.7	17.7
140°-150°	425.3	17.4
150°-160°	356.7	14.6
160°-170°	236.6	9.7
170°-180°	82.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	519.5	21.3
90°-150°	1764.8	72.2
90°-180°	2441.0	99.9
0°-180°	2443.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	10	26	24	25	2
95°	38	46	47	47	46	43
105°	158	161	162	164	164	167
115°	295	299	298	297	295	292
125°	429	435	433	431	430	383
135°	555	563	564	564	561	429
145°	673	678	683	684	681	421
155°	770	772	774	778	776	354
165°	838	837	837	842	838	236
175°	872	869	868	873	869	83
180°	873	873	873	873	873	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.7	9.6	25.8	24.3	25.0
92.5°	16.2	22.1	22.8	23.6	23.6
95°	38.3	45.7	47.2	47.2	45.7
97.5°	64.1	70.7	73.7	73.7	73.7
100°	93.6	99.5	101.7	101.7	100.9
102.5°	124.5	128.9	131.9	132.6	131.9
105°	158.4	160.6	162.1	163.6	163.6
107.5°	192.3	195.2	195.2	196.0	192.3
110°	224.7	229.1	229.1	229.1	226.9



TEST NUMBER: P334477

CATALOG NUMBER: S122IP-S725U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.1	264.5	263.7	261.5	260.1
115°	294.7	299.1	297.6	296.9	294.7
117.5°	329.3	335.2	331.5	329.3	327.1
120°	363.9	369.8	363.9	363.9	361.7
122.5°	395.6	403.0	399.3	397.1	395.6
125°	428.8	435.4	433.2	431.0	430.3
127.5°	461.2	469.3	466.4	463.4	461.2
130°	491.4	501.0	499.5	498.0	495.1
132.5°	525.3	532.7	533.4	529.7	527.5
135°	554.8	562.9	564.3	563.6	561.4
137.5°	587.2	593.8	595.3	594.5	591.6
140°	615.9	622.5	626.2	626.2	623.3
142.5°	645.4	652.0	654.2	655.0	652.0
145°	673.4	678.5	682.9	683.7	680.7
147.5°	698.4	705.1	708.0	709.5	706.5
150°	724.2	728.6	731.6	733.8	731.6
152.5°	747.0	751.5	755.1	758.1	755.1
155°	769.9	772.1	774.3	778.0	775.8
157.5°	789.8	791.2	792.7	797.9	794.2
160°	807.5	808.9	809.7	814.1	811.1
162.5°	823.7	823.7	824.4	829.6	825.9
165°	837.7	836.9	836.9	842.1	838.4
167.5°	850.2	848.0	848.0	853.1	849.5
170°	859.8	857.6	856.8	862.0	857.6
172.5°	866.4	864.2	863.4	868.6	864.2
175°	871.6	869.3	867.9	873.0	868.6
177.5°	874.5	872.3	870.8	875.2	870.8
180°	873.0	873.0	873.0	873.0	873.0

(END OF REPORT)