

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: P334912

Luminaire Tested: **S124IP-S810U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S810U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2564.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

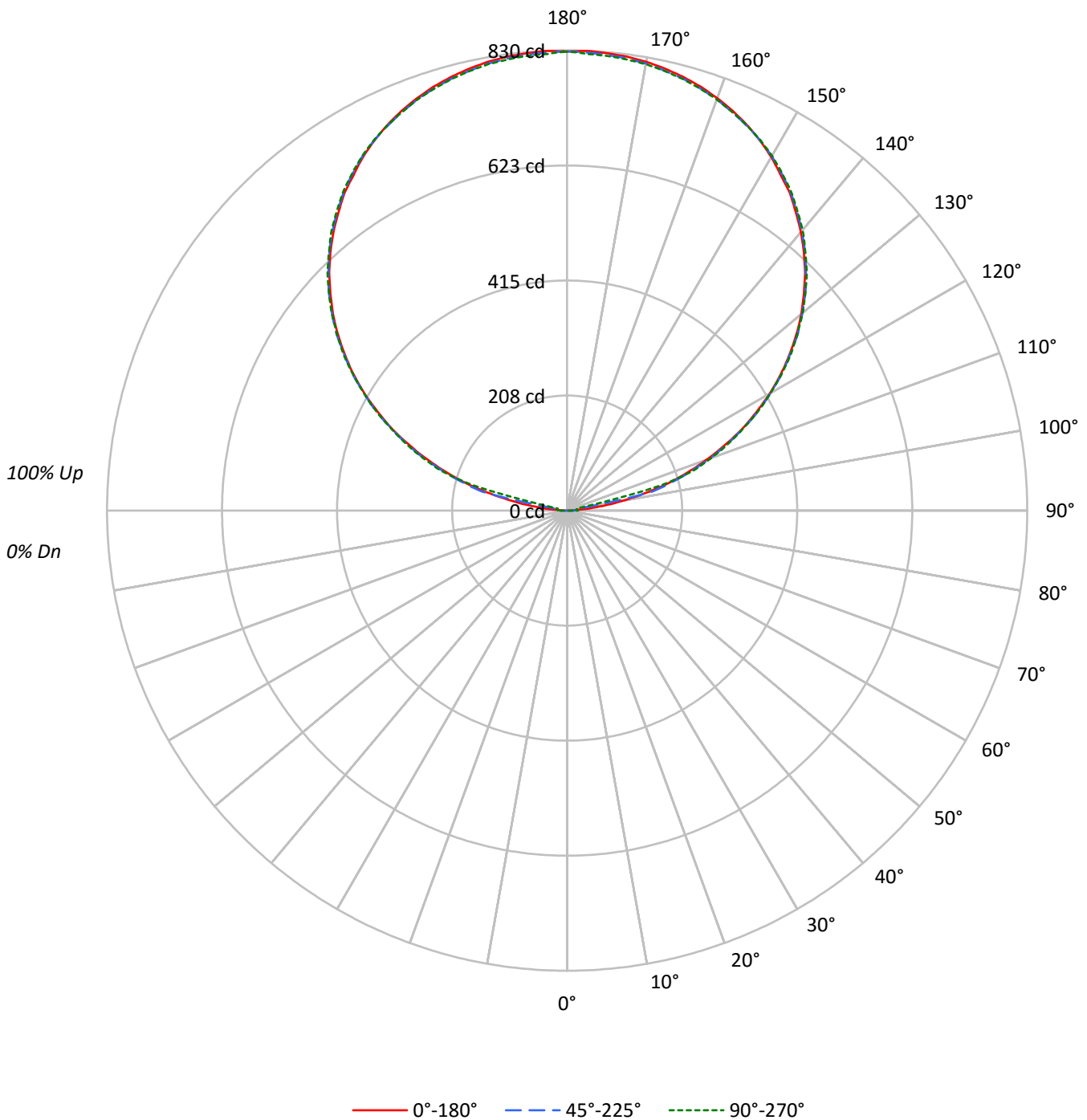
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.7	0.1
90°-100°	27.5	1.1
100°-110°	181.0	7.1
110°-120°	345.7	13.5
120°-130°	438.8	17.1
130°-140°	469.5	18.3
140°-150°	439.0	17.1
150°-160°	354.0	13.8
160°-170°	228.3	8.9
170°-180°	78.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	554.2	21.6
90°-150°	1901.6	74.2
90°-180°	2563.0	100.0
0°-180°	2564.3	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°	2	9	14	17	19	2
95°	34	13	14	17	18	42
105°	186	190	193	199	176	195
115°	348	350	349	351	351	343
125°	489	492	491	492	493	437
135°	607	606	609	610	611	468
145°	700	702	702	702	704	437
155°	767	768	766	769	767	354
165°	810	806	806	811	806	229
175°	828	824	825	831	823	79
180°	828	828	828	828	828	



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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°	1.9	8.7	13.6	17.3	18.6
92.5°	9.3	8.1	13.0	16.7	16.7
95°	34.1	13.0	13.6	17.3	18.0
97.5°	65.0	78.7	13.6	16.7	17.3
100°	101.6	112.7	27.3	16.7	17.3
102.5°	142.5	149.9	157.3	18.0	18.0
105°	186.4	190.2	193.3	198.8	176.5
107.5°	226.7	228.6	232.9	236.0	238.5
110°	267.6	269.4	273.2	274.4	276.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	307.2	310.9	312.2	311.6	314.0
115°	348.1	350.0	349.3	350.6	350.6
117.5°	384.6	387.1	389.0	388.4	388.4
120°	421.8	424.3	423.7	424.9	423.7
122.5°	456.5	457.7	459.0	459.6	458.4
125°	489.3	491.8	490.6	492.4	493.0
127.5°	520.9	521.5	524.6	524.0	523.4
130°	551.3	551.9	553.7	554.4	554.4
132.5°	579.1	580.4	582.9	583.5	582.9
135°	607.0	606.4	608.9	610.1	611.3
137.5°	631.8	631.8	634.9	636.1	635.5
140°	655.9	657.2	658.4	660.3	660.9
142.5°	677.6	680.1	680.7	682.0	682.0
145°	699.9	701.8	701.8	702.4	703.6
147.5°	717.3	721.0	720.4	721.0	721.6
150°	736.5	738.9	738.3	738.3	738.9
152.5°	752.6	754.4	753.2	754.4	753.8
155°	767.4	768.1	766.2	768.7	766.8
157.5°	780.4	780.4	778.0	781.1	778.0
160°	791.6	789.7	789.1	792.8	789.1
162.5°	801.5	799.0	798.4	802.1	797.8
165°	809.6	806.5	806.5	811.4	805.8
167.5°	816.4	813.3	812.7	818.2	812.0
170°	821.9	818.2	818.8	823.8	817.6
172.5°	825.7	821.9	822.6	827.5	820.7
175°	828.1	824.4	825.0	830.6	823.2
177.5°	830.0	825.7	826.9	831.9	824.4
180°	828.1	828.1	828.1	828.1	828.1

(END OF REPORT)