

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: P334847

Luminaire Tested: **S124IP-S810U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S810U930-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

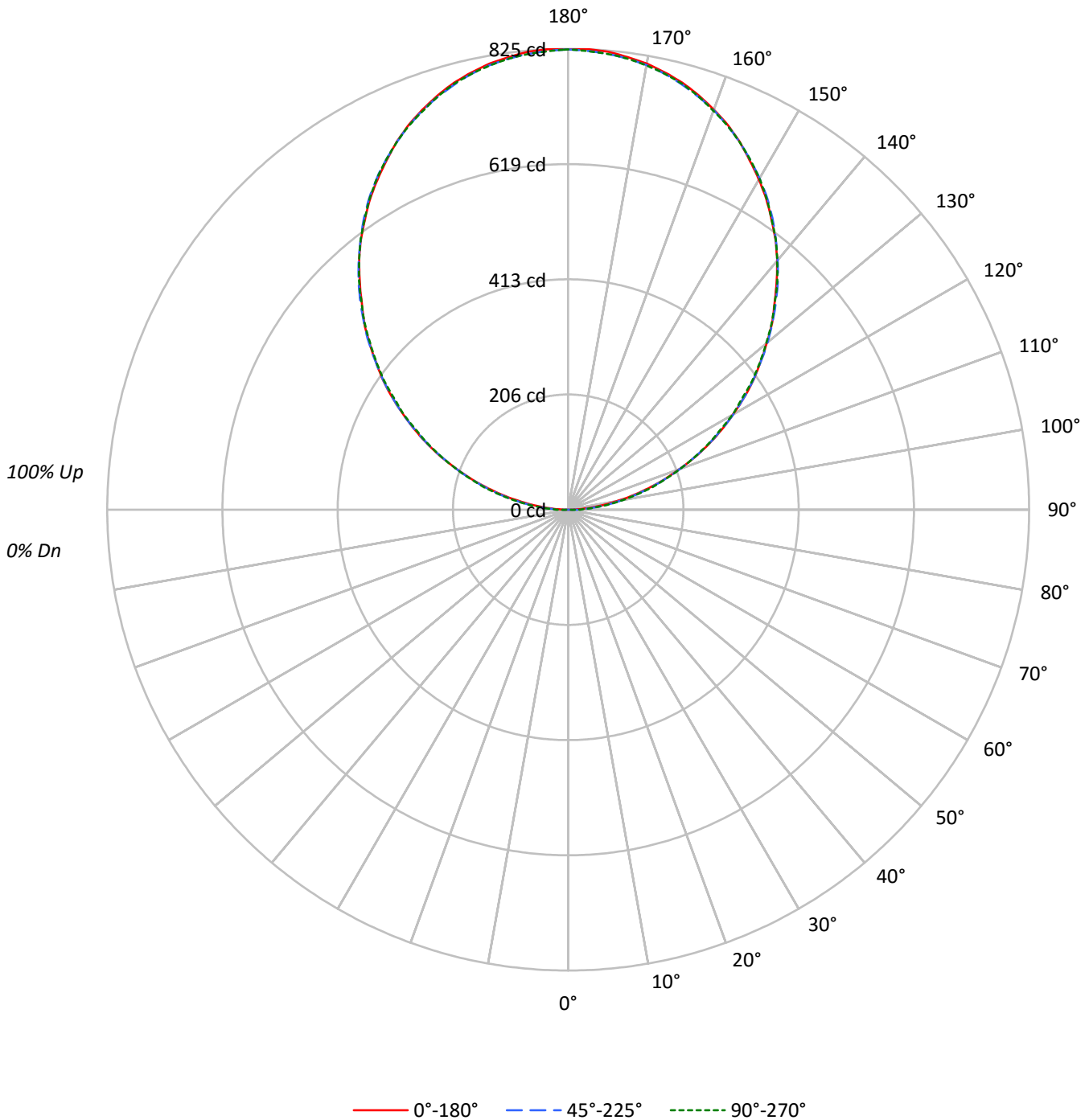
Lumens per Lamp: N/A
Luminaire Lumens: 2288.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	1.8	0.1
90°-100°	53.7	2.3
100°-110°	160.9	7.0
110°-120°	273.3	11.9
120°-130°	360.5	15.8
130°-140°	404.9	17.7
140°-150°	398.0	17.4
150°-160°	334.7	14.6
160°-170°	222.7	9.7
170°-180°	78.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	488.0	21.3
90°-150°	1651.3	72.2
90°-180°	2287.0	99.9
0°-180°	2288.5	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	18	19	3
95°	38	44	48	50	50	41
105°	148	149	152	154	156	157
115°	278	278	277	276	275	274
125°	405	405	404	403	402	361
135°	522	526	526	525	523	404
145°	634	637	637	637	635	397
155°	727	727	726	728	726	334
165°	791	789	788	792	789	223
175°	823	820	819	824	819	78
180°	824	824	824	824	824	



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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	8.9	14.0	17.8	19.1
92.5°	16.6	24.9	28.0	30.0	30.6
95°	38.2	44.0	48.4	50.4	50.4
97.5°	61.2	66.3	71.4	73.9	73.9
100°	89.2	91.8	97.5	98.8	98.8
102.5°	118.6	119.2	124.3	126.2	126.8
105°	148.5	149.1	151.7	153.6	155.5
107.5°	179.7	180.4	181.0	183.6	182.9
110°	211.6	212.9	212.3	211.0	212.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.8	244.8	243.5	243.5	243.5
115°	277.9	277.9	276.6	276.0	275.4
117.5°	309.1	309.1	308.5	306.6	304.7
120°	340.4	342.9	341.0	337.8	339.1
122.5°	372.9	373.5	372.9	371.0	367.8
125°	404.7	404.7	404.1	402.8	401.6
127.5°	433.4	435.3	434.1	432.8	432.2
130°	464.0	465.9	465.9	464.7	462.1
132.5°	495.3	496.5	495.9	494.6	494.0
135°	522.0	525.8	525.8	524.6	522.7
137.5°	552.0	553.9	555.2	553.3	553.9
140°	581.9	583.2	583.2	582.6	581.9
142.5°	609.3	610.6	610.0	610.0	610.0
145°	634.2	636.8	637.4	636.8	634.8
147.5°	659.7	662.9	662.2	661.6	661.0
150°	682.6	685.2	685.2	685.2	684.6
152.5°	704.3	705.6	706.2	708.1	706.2
155°	726.6	726.6	726.0	728.5	726.0
157.5°	745.7	744.5	744.5	746.4	744.5
160°	762.3	761.7	761.0	763.0	759.8
162.5°	777.6	775.7	775.1	778.9	775.7
165°	791.0	789.1	787.8	791.6	789.1
167.5°	801.8	799.3	799.3	803.1	799.3
170°	810.8	807.6	808.2	812.0	807.6
172.5°	817.1	814.6	814.6	819.0	814.6
175°	822.9	819.7	819.0	823.5	819.0
177.5°	825.4	822.2	822.2	826.7	821.6
180°	824.1	824.1	824.1	824.1	824.1

(END OF REPORT)