

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: P334742

Luminaire Tested: **S123IP-S805U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S805U930-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 805 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

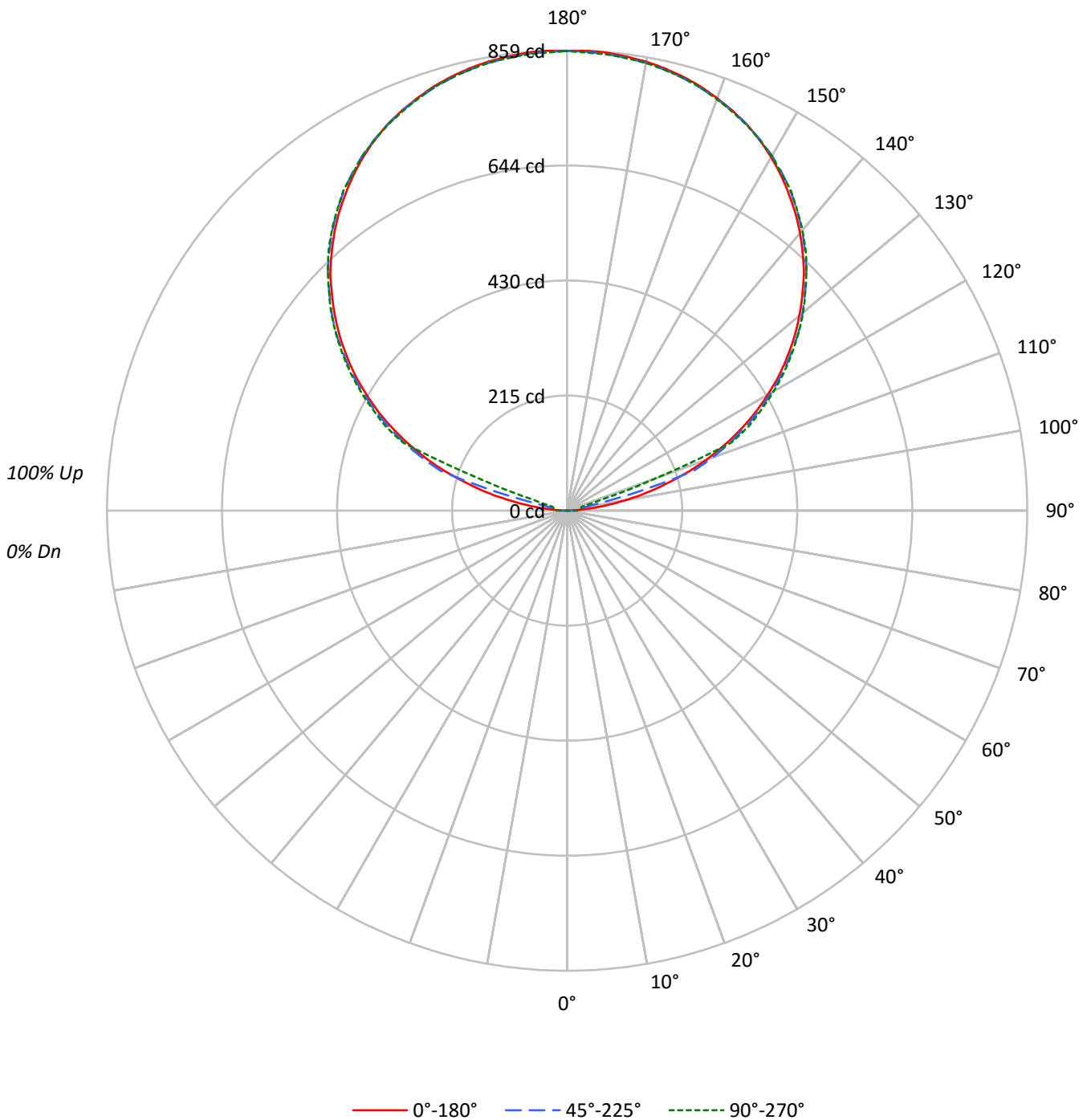
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.7	0.1
90°-100°	30.3	1.2
100°-110°	146.3	5.6
110°-120°	358.4	13.7
120°-130°	455.0	17.4
130°-140°	486.1	18.6
140°-150°	454.6	17.4
150°-160°	366.6	14.0
160°-170°	236.6	9.0
170°-180°	81.5	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°	535.0	20.4
90°-150°	1930.7	73.8
90°-180°	2615.0	99.9
0°-180°	2617.2	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	7	15	18	19	2
95°	39	13	20	24	24	46
105°	190	197	140	27	28	201
115°	356	360	366	372	375	352
125°	502	507	510	511	512	449
135°	625	629	632	634	632	481
145°	722	726	727	728	728	452
155°	795	794	794	797	794	366
165°	838	836	836	841	836	237
175°	858	855	855	860	855	82
180°	858	858	858	858	858	



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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°	0.6	7.0	15.3	17.8	19.1
92.5°	14.7	10.8	16.6	21.0	21.7
95°	38.9	12.7	19.8	24.2	24.2
97.5°	70.8	52.9	20.4	25.5	26.1
100°	107.7	120.5	21.0	26.1	26.8
102.5°	149.8	158.1	47.2	26.1	27.4
105°	189.9	197.0	139.6	26.8	28.0
107.5°	232.6	238.4	247.9	149.8	66.3
110°	275.4	280.5	287.5	266.4	175.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.1	320.6	327.6	333.4	332.1
115°	356.3	360.1	365.9	372.2	374.8
117.5°	395.8	400.3	403.5	408.6	409.2
120°	432.2	437.9	439.8	444.9	444.9
122.5°	469.1	473.6	476.1	479.3	480.0
125°	502.3	507.4	509.9	511.2	512.5
127.5°	535.4	540.5	543.7	545.6	544.3
130°	566.0	571.1	573.7	576.2	574.9
132.5°	595.3	600.4	602.3	604.9	603.0
135°	625.3	629.1	631.7	633.6	631.7
137.5°	650.8	655.9	657.2	660.3	659.1
140°	676.3	680.1	682.0	684.6	683.3
142.5°	699.9	703.7	705.6	707.5	705.6
145°	721.5	726.0	727.3	728.5	728.5
147.5°	742.6	745.8	747.0	748.3	745.1
150°	761.7	763.6	764.9	766.2	764.2
152.5°	778.9	779.5	780.2	782.7	779.5
155°	794.8	793.6	794.2	797.4	793.6
157.5°	807.6	807.6	806.9	810.8	805.7
160°	819.1	818.4	817.8	821.6	817.1
162.5°	829.9	828.0	827.3	831.8	828.0
165°	838.2	836.3	835.6	840.7	836.3
167.5°	845.2	842.6	842.6	847.7	842.6
170°	850.9	848.4	848.4	853.5	848.4
172.5°	854.7	851.6	852.2	857.3	851.6
175°	857.9	854.7	855.4	859.8	854.7
177.5°	859.2	856.0	856.7	861.8	855.4
180°	857.9	857.9	857.9	857.9	857.9

(END OF REPORT)