

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: P334752

Luminaire Tested: **S123IP-S805U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334752
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-S805U940-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 805 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

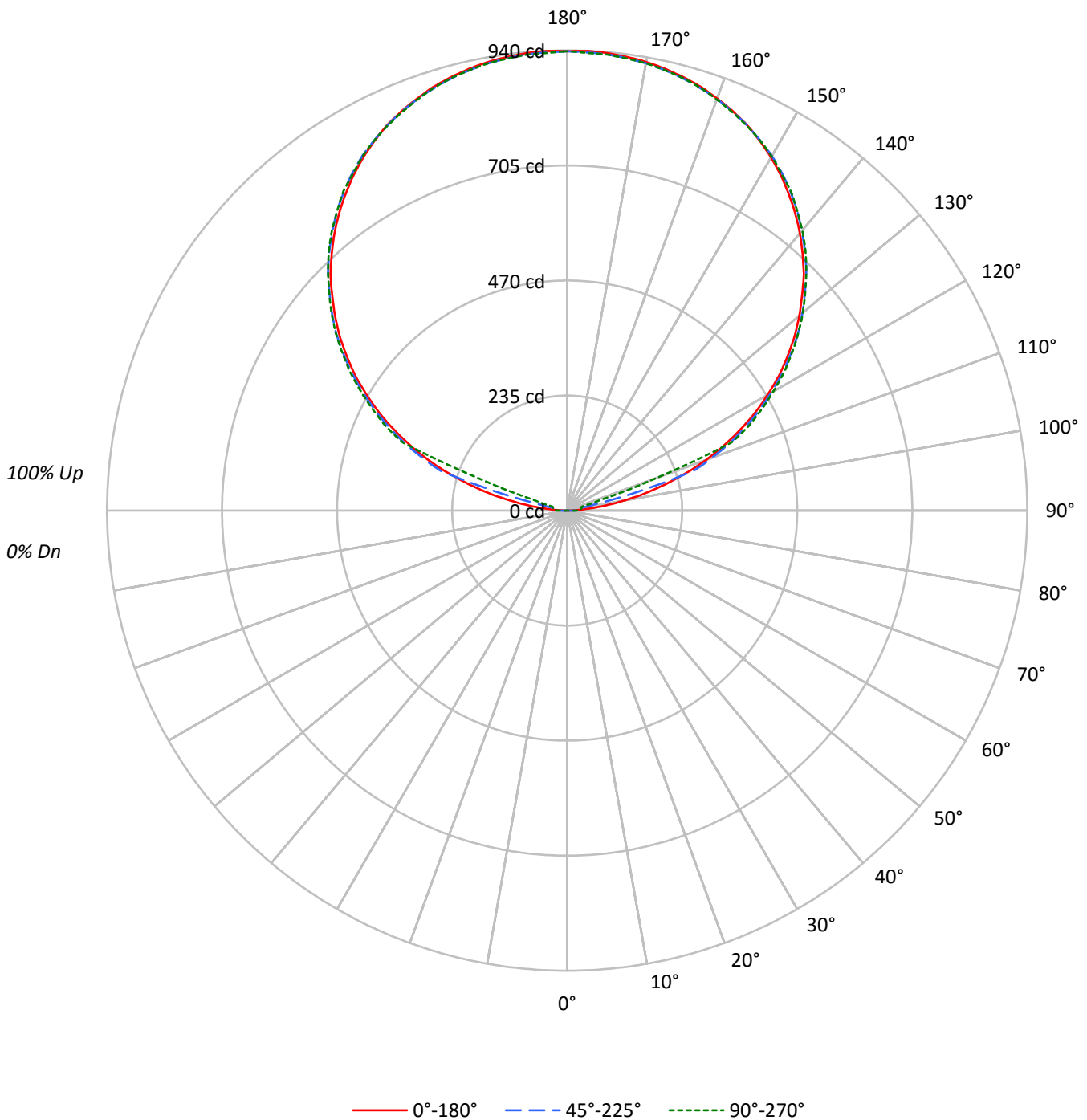
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.9	0.1
90°-100°	33.1	1.2
100°-110°	160.0	5.6
110°-120°	392.0	13.7
120°-130°	497.7	17.4
130°-140°	531.7	18.6
140°-150°	497.2	17.4
150°-160°	401.0	14.0
160°-170°	258.8	9.0
170°-180°	89.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	585.1	20.4
90°-150°	2111.6	73.8
90°-180°	2861.0	99.9
0°-180°	2862.5	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°	1	8	17	20	21	2
95°	42	14	22	26	26	51
105°	208	215	153	29	31	220
115°	390	394	400	407	410	385
125°	549	555	558	559	560	491
135°	684	688	691	693	691	527
145°	789	794	795	797	797	494
155°	869	868	869	872	868	401
165°	917	915	914	920	915	259
175°	938	935	936	940	935	89
180°	938	938	938	938	938	



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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	7.7	16.7	19.5	20.9
92.5°	16.0	11.9	18.1	23.0	23.7
95°	42.5	13.9	21.6	26.5	26.5
97.5°	77.4	57.9	22.3	27.9	28.6
100°	117.8	131.8	23.0	28.6	29.3
102.5°	163.8	172.9	51.6	28.6	30.0
105°	207.7	215.4	152.7	29.3	30.7
107.5°	254.5	260.7	271.2	163.8	72.5
110°	301.2	306.7	314.4	291.4	191.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	345.8	350.7	358.3	364.6	363.2
115°	389.7	393.9	400.2	407.1	409.9
117.5°	432.9	437.8	441.3	446.9	447.6
120°	472.7	478.9	481.0	486.6	486.6
122.5°	513.1	518.0	520.8	524.2	524.9
125°	549.3	554.9	557.7	559.1	560.5
127.5°	585.6	591.2	594.7	596.7	595.4
130°	619.1	624.6	627.4	630.2	628.8
132.5°	651.1	656.7	658.8	661.6	659.5
135°	683.9	688.1	690.9	693.0	690.9
137.5°	711.8	717.4	718.7	722.2	720.8
140°	739.7	743.8	745.9	748.7	747.3
142.5°	765.5	769.6	771.7	773.8	771.7
145°	789.2	794.0	795.4	796.8	796.8
147.5°	812.2	815.6	817.0	818.4	815.0
150°	833.1	835.2	836.6	838.0	835.9
152.5°	851.9	852.6	853.3	856.1	852.6
155°	869.3	867.9	868.6	872.1	867.9
157.5°	883.3	883.3	882.6	886.8	881.2
160°	895.8	895.1	894.4	898.6	893.7
162.5°	907.7	905.6	904.9	909.8	905.6
165°	916.7	914.6	913.9	919.5	914.6
167.5°	924.4	921.6	921.6	927.2	921.6
170°	930.7	927.9	927.9	933.5	927.9
172.5°	934.9	931.4	932.1	937.6	931.4
175°	938.3	934.9	935.6	940.4	934.9
177.5°	939.7	936.3	936.9	942.5	935.6
180°	938.3	938.3	938.3	938.3	938.3

(END OF REPORT)