

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: P334738

Luminaire Tested: **S123IP-S1025U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334738  
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-S1025U927-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1025 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

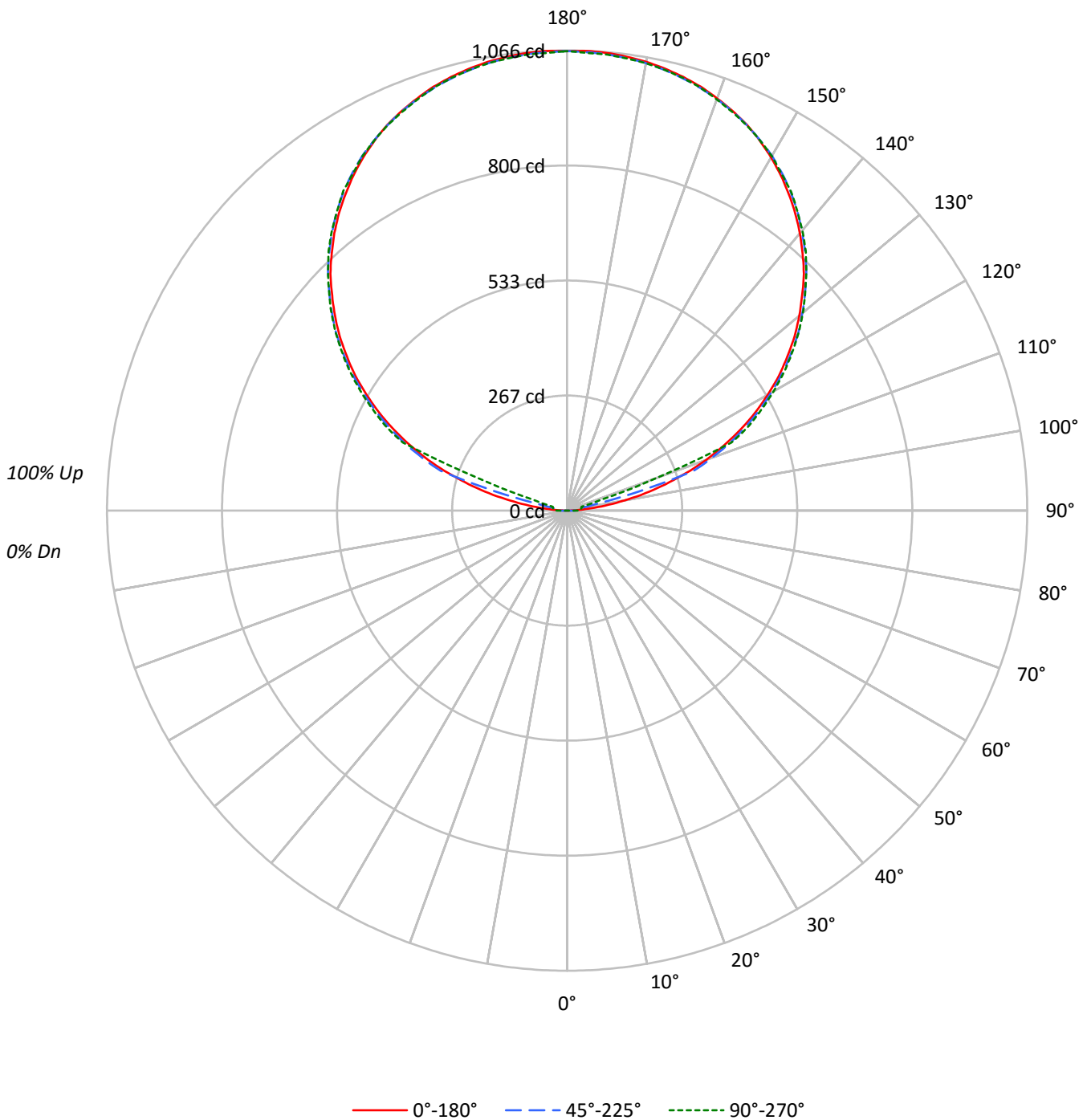
Lumens per Lamp: N/A  
Luminaire Lumens: 3246.7 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 35.1  
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°	2.1	0.1
90°-100°	37.5	1.2
100°-110°	181.4	5.6
110°-120°	444.7	13.7
120°-130°	564.5	17.4
130°-140°	603.0	18.6
140°-150°	563.9	17.4
150°-160°	454.8	14.0
160°-170°	293.5	9.0
170°-180°	101.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	663.6	20.4
90°-150°	2395.1	73.8
90°-180°	3245.0	99.9
0°-180°	3246.7	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	9	19	22	24	3
95°	48	16	24	30	30	58
105°	236	244	173	33	35	250
115°	442	447	454	462	465	437
125°	623	629	633	634	636	557
135°	776	780	784	786	784	597
145°	895	901	902	904	904	560
155°	986	984	985	989	984	454
165°	1040	1037	1037	1043	1037	294
175°	1064	1060	1061	1067	1060	101
180°	1064	1064	1064	1064	1064	



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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°	0.8	8.7	19.0	22.1	23.7
92.5°	18.2	13.4	20.6	26.1	26.9
95°	48.2	15.8	24.5	30.0	30.0
97.5°	87.8	65.6	25.3	31.6	32.4
100°	133.6	149.4	26.1	32.4	33.2
102.5°	185.8	196.1	58.5	32.4	34.0
105°	235.6	244.3	173.2	33.2	34.8
107.5°	288.6	295.7	307.6	185.8	82.2
110°	341.6	347.9	356.6	330.5	217.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	392.2	397.7	406.4	413.5	412.0
115°	442.0	446.8	453.9	461.8	464.9
117.5°	491.0	496.6	500.5	506.8	507.6
120°	536.1	543.2	545.6	551.9	551.9
122.5°	582.0	587.5	590.7	594.6	595.4
125°	623.1	629.4	632.6	634.2	635.7
127.5°	664.2	670.5	674.5	676.9	675.3
130°	702.2	708.5	711.6	714.8	713.2
132.5°	738.5	744.9	747.2	750.4	748.0
135°	775.7	780.4	783.6	786.0	783.6
137.5°	807.3	813.6	815.2	819.2	817.6
140°	838.9	843.7	846.1	849.2	847.6
142.5°	868.2	872.9	875.3	877.7	875.3
145°	895.1	900.6	902.2	903.8	903.8
147.5°	921.2	925.1	926.7	928.3	924.3
150°	944.9	947.3	948.9	950.4	948.1
152.5°	966.3	967.0	967.8	971.0	967.0
155°	986.0	984.4	985.2	989.2	984.4
157.5°	1001.8	1001.8	1001.0	1005.8	999.5
160°	1016.1	1015.3	1014.5	1019.2	1013.7
162.5°	1029.5	1027.1	1026.3	1031.9	1027.1
165°	1039.8	1037.4	1036.6	1043.0	1037.4
167.5°	1048.5	1045.3	1045.3	1051.6	1045.3
170°	1055.6	1052.4	1052.4	1058.8	1052.4
172.5°	1060.3	1056.4	1057.2	1063.5	1056.4
175°	1064.3	1060.3	1061.1	1066.7	1060.3
177.5°	1065.9	1061.9	1062.7	1069.0	1061.1
180°	1064.3	1064.3	1064.3	1064.3	1064.3

(END OF REPORT)