

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: P334743

Luminaire Tested: **S123IP-S1025U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334743
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-S1025U930-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

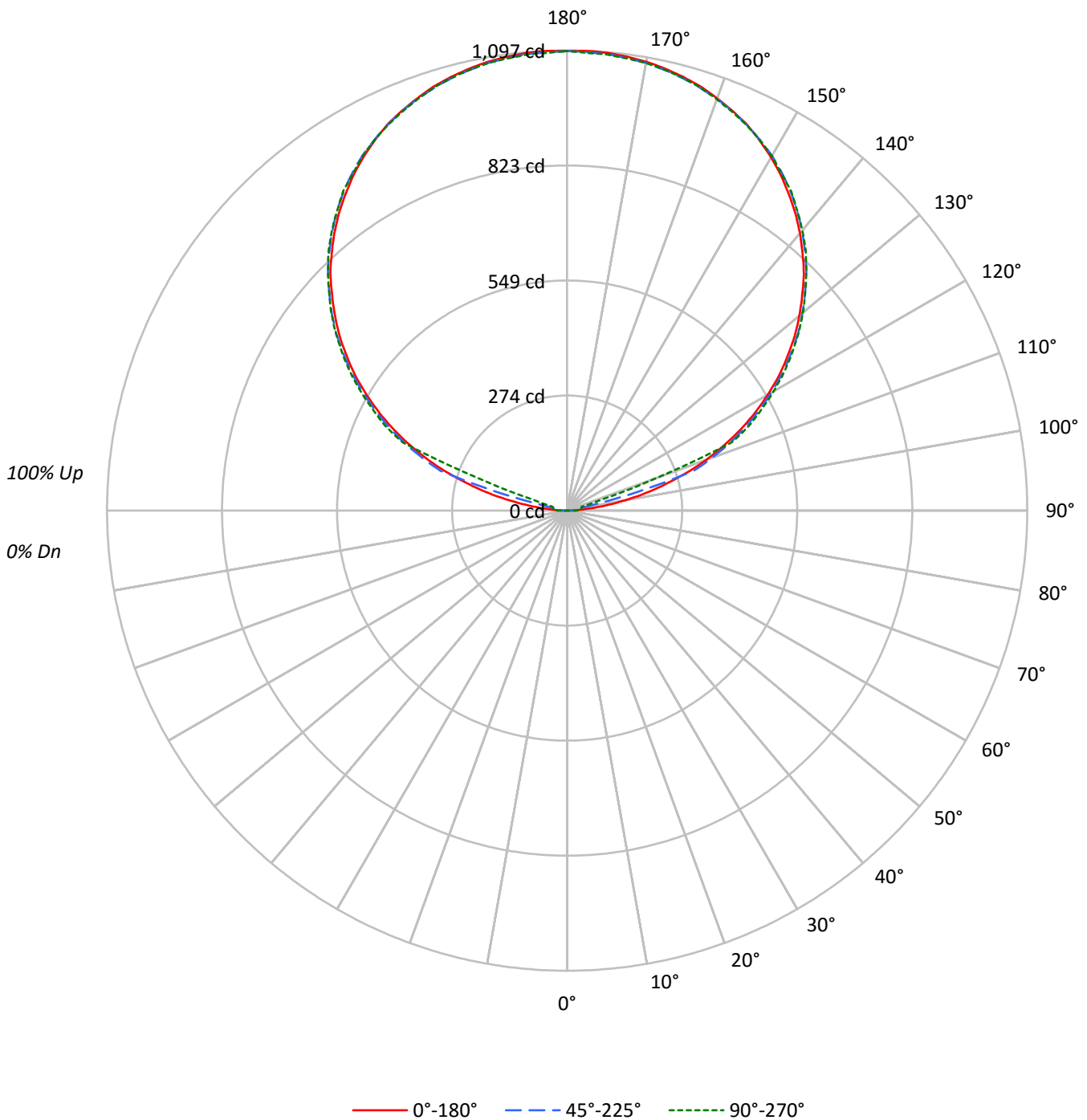
Lumens per Lamp: N/A
Luminaire Lumens: 3341.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.2	0.1
90°-100°	38.6	1.2
100°-110°	186.8	5.6
110°-120°	457.6	13.7
120°-130°	581.0	17.4
130°-140°	620.6	18.6
140°-150°	580.4	17.4
150°-160°	468.1	14.0
160°-170°	302.1	9.0
170°-180°	104.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	683.0	20.4
90°-150°	2465.0	73.8
90°-180°	3339.0	99.9
0°-180°	3341.5	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	9	20	23	24	3
95°	50	16	25	31	31	59
105°	242	252	178	34	36	257
115°	455	460	467	475	478	449
125°	641	648	651	653	654	573
135°	798	803	806	809	806	615
145°	921	927	928	930	930	577
155°	1015	1013	1014	1018	1013	468
165°	1070	1068	1067	1073	1068	302
175°	1095	1091	1092	1098	1091	104
180°	1095	1095	1095	1095	1095	



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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	9.0	19.5	22.8	24.4
92.5°	18.7	13.8	21.2	26.9	27.7
95°	49.6	16.3	25.2	30.9	30.9
97.5°	90.3	67.5	26.0	32.6	33.4
100°	137.5	153.8	26.9	33.4	34.2
102.5°	191.2	201.8	60.2	33.4	35.0
105°	242.5	251.5	178.2	34.2	35.8
107.5°	297.0	304.4	316.6	191.2	84.6
110°	351.6	358.1	367.0	340.2	223.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	403.6	409.3	418.3	425.6	424.0
115°	454.9	459.8	467.1	475.3	478.5
117.5°	505.4	511.1	515.1	521.6	522.5
120°	551.7	559.1	561.5	568.0	568.0
122.5°	598.9	604.6	607.9	612.0	612.8
125°	641.3	647.8	651.0	652.7	654.3
127.5°	683.6	690.1	694.2	696.6	695.0
130°	722.6	729.2	732.4	735.7	734.0
132.5°	760.1	766.6	769.0	772.3	769.8
135°	798.3	803.2	806.5	808.9	806.5
137.5°	830.9	837.4	839.0	843.1	841.5
140°	863.4	868.3	870.8	874.0	872.4
142.5°	893.5	898.4	900.9	903.3	900.9
145°	921.2	926.9	928.5	930.2	930.2
147.5°	948.1	952.1	953.8	955.4	951.3
150°	972.5	974.9	976.5	978.2	975.7
152.5°	994.4	995.3	996.1	999.3	995.3
155°	1014.8	1013.2	1014.0	1018.0	1013.2
157.5°	1031.1	1031.1	1030.3	1035.1	1028.6
160°	1045.7	1044.9	1044.1	1049.0	1043.3
162.5°	1059.6	1057.1	1056.3	1062.0	1057.1
165°	1070.1	1067.7	1066.9	1073.4	1067.7
167.5°	1079.1	1075.8	1075.8	1082.3	1075.8
170°	1086.4	1083.2	1083.2	1089.7	1083.2
172.5°	1091.3	1087.2	1088.0	1094.5	1087.2
175°	1095.4	1091.3	1092.1	1097.8	1091.3
177.5°	1097.0	1092.9	1093.7	1100.2	1092.1
180°	1095.4	1095.4	1095.4	1095.4	1095.4

(END OF REPORT)