

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: P334733

Luminaire Tested: **S123IP-S1025U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334733
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-S1025U840-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

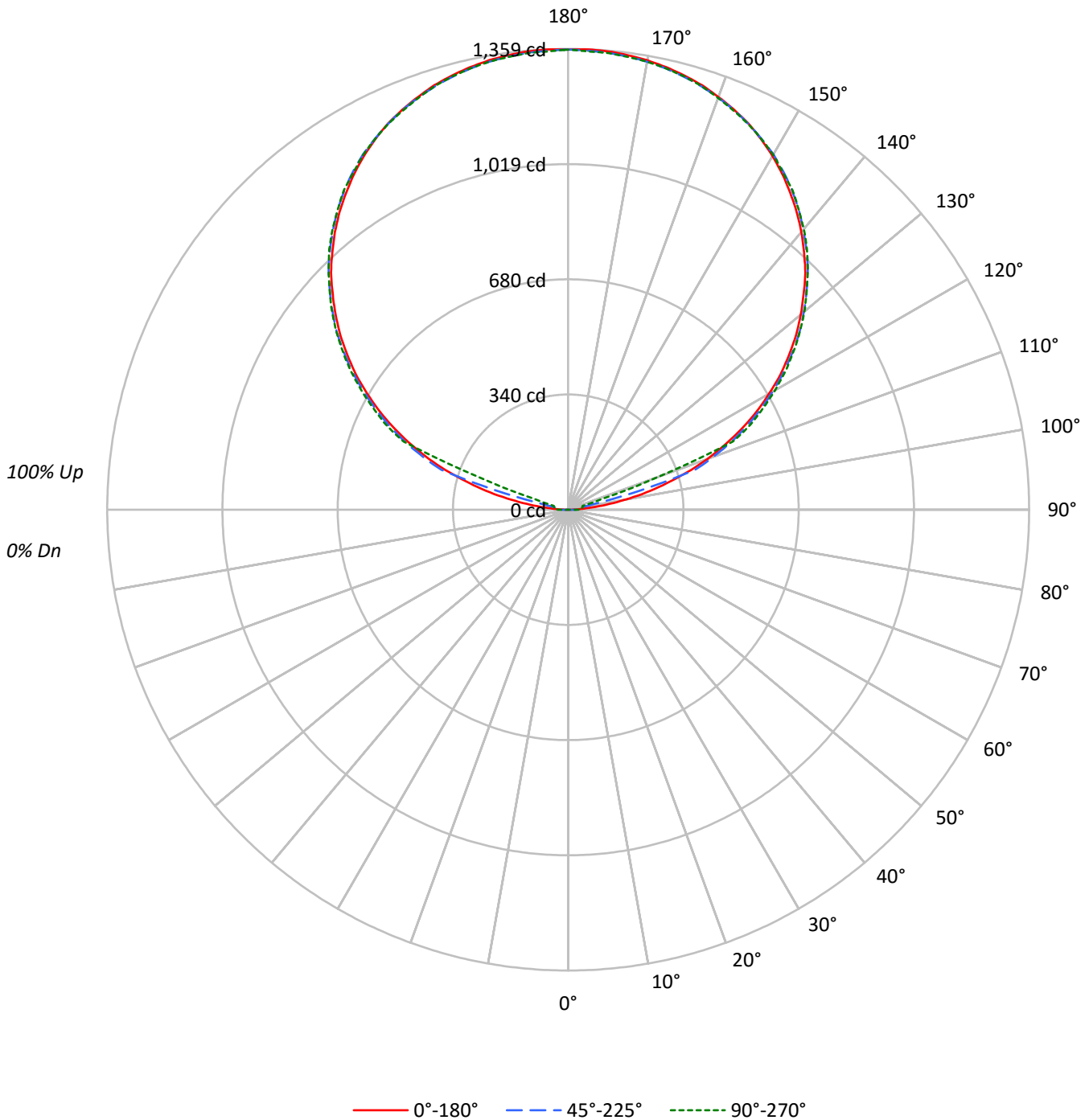
Lumens per Lamp: N/A
Luminaire Lumens: 4138.9 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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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CATALOG NUMBER: S123IP-S1025U840-4F0-1E-UDD

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°	2.7	0.1
90°-100°	47.9	1.2
100°-110°	231.3	5.6
110°-120°	566.9	13.7
120°-130°	719.6	17.4
130°-140°	768.7	18.6
140°-150°	718.9	17.4
150°-160°	579.8	14.0
160°-170°	374.2	9.0
170°-180°	128.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	846.0	20.4
90°-150°	3053.2	73.8
90°-180°	4136.0	99.9
0°-180°	4138.9	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	11	24	28	30	3
95°	62	20	31	38	38	73
105°	300	312	221	42	44	319
115°	564	570	579	589	593	557
125°	794	802	806	808	810	710
135°	989	995	999	1002	999	761
145°	1141	1148	1150	1152	1152	714
155°	1257	1255	1256	1261	1255	579
165°	1326	1322	1322	1330	1322	375
175°	1357	1352	1353	1360	1352	129
180°	1357	1357	1357	1357	1357	



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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°	1.0	11.1	24.2	28.2	30.2
92.5°	23.2	17.1	26.2	33.3	34.3
95°	61.5	20.2	31.2	38.3	38.3
97.5°	111.9	83.7	32.3	40.3	41.3
100°	170.4	190.5	33.3	41.3	42.3
102.5°	236.9	250.0	74.6	41.3	43.3
105°	300.4	311.5	220.8	42.3	44.4
107.5°	367.9	377.0	392.1	236.9	104.8
110°	435.5	443.5	454.6	421.3	277.2



TEST NUMBER: P334733

CATALOG NUMBER: S123IP-S1025U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.0	507.0	518.1	527.2	525.2
115°	563.5	569.5	578.6	588.7	592.7
117.5°	626.0	633.0	638.1	646.1	647.1
120°	683.4	692.5	695.5	703.6	703.6
122.5°	741.9	748.9	753.0	758.0	759.0
125°	794.3	802.4	806.4	808.4	810.4
127.5°	846.7	854.8	859.8	862.8	860.8
130°	895.1	903.2	907.2	911.2	909.2
132.5°	941.5	949.5	952.6	956.6	953.6
135°	988.8	994.9	998.9	1001.9	998.9
137.5°	1029.2	1037.2	1039.2	1044.3	1042.3
140°	1069.5	1075.5	1078.6	1082.6	1080.6
142.5°	1106.8	1112.8	1115.8	1118.9	1115.8
145°	1141.0	1148.1	1150.1	1152.1	1152.1
147.5°	1174.3	1179.4	1181.4	1183.4	1178.3
150°	1204.6	1207.6	1209.6	1211.6	1208.6
152.5°	1231.8	1232.8	1233.8	1237.8	1232.8
155°	1257.0	1255.0	1256.0	1261.0	1255.0
157.5°	1277.1	1277.1	1276.1	1282.2	1274.1
160°	1295.3	1294.3	1293.3	1299.3	1292.2
162.5°	1312.4	1309.4	1308.4	1315.4	1309.4
165°	1325.5	1322.5	1321.5	1329.5	1322.5
167.5°	1336.6	1332.6	1332.6	1340.6	1332.6
170°	1345.7	1341.6	1341.6	1349.7	1341.6
172.5°	1351.7	1346.7	1347.7	1355.8	1346.7
175°	1356.8	1351.7	1352.7	1359.8	1351.7
177.5°	1358.8	1353.7	1354.7	1362.8	1352.7
180°	1356.8	1356.8	1356.8	1356.8	1356.8

(END OF REPORT)