

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: P334663

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
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-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 3558.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

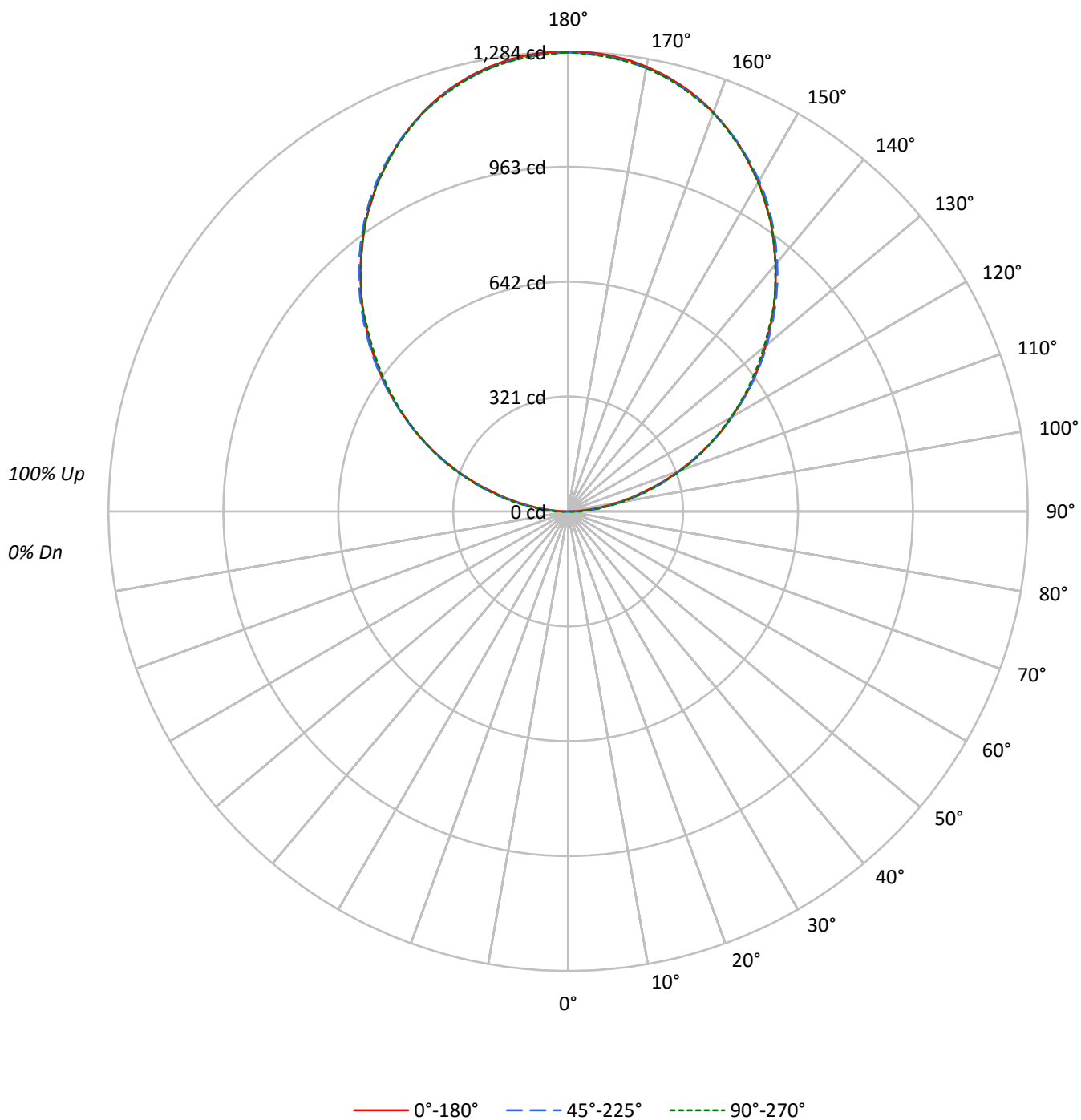
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334663

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

Luminous Intensity Polar Plot



TEST NUMBER: P334663

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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

TEST NUMBER: P334663

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

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°	82.6	2.3
100°-110°	250.0	7.0
110°-120°	425.6	12.0
120°-130°	560.0	15.7
130°-140°	629.4	17.7
140°-150°	618.8	17.4
150°-160°	521.0	14.6
160°-170°	346.8	9.7
170°-180°	121.4	3.4
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°	758.3	21.3
90°-150°	2566.4	72.1
90°-180°	3556.0	99.9
0°-180°	3558.3	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	4
95°	60	66	75	79	79	66
105°	227	229	238	238	240	243
115°	428	431	429	430	429	424
125°	627	630	628	624	620	559
135°	814	820	818	814	812	627
145°	987	989	992	991	987	616
155°	1130	1130	1131	1135	1128	520
165°	1231	1228	1228	1234	1227	347
175°	1280	1276	1276	1282	1275	122
180°	1283	1283	1283	1283	1283	

TEST NUMBER: P334663

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

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°	30.2	36.3	42.3	45.4	43.3
95°	59.5	66.5	74.6	78.6	78.6
97.5°	97.8	102.8	108.9	113.9	112.9
100°	137.1	143.1	148.2	151.2	153.2
102.5°	182.5	185.5	192.5	195.6	194.6
105°	226.8	228.8	237.9	237.9	239.9
107.5°	279.2	280.2	284.3	287.3	286.3
110°	327.6	329.6	331.7	335.7	333.7

TEST NUMBER: P334663

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.0	379.0	379.0	384.1	384.1
115°	428.4	431.4	429.4	430.4	429.4
117.5°	479.8	480.8	478.8	478.8	475.8
120°	527.2	533.3	528.2	527.2	525.2
122.5°	576.6	580.6	578.6	575.6	572.6
125°	627.0	630.0	628.0	624.0	620.0
127.5°	673.4	679.4	677.4	671.4	667.3
130°	719.8	727.8	724.8	720.8	713.7
132.5°	766.1	774.2	772.2	767.1	762.1
135°	813.5	819.5	818.5	814.5	812.5
137.5°	856.8	861.9	864.9	859.9	856.8
140°	902.2	907.3	908.3	907.3	900.2
142.5°	943.5	948.6	950.6	949.6	944.5
145°	986.9	988.9	991.9	990.9	986.9
147.5°	1024.2	1028.2	1031.2	1031.2	1025.2
150°	1063.5	1065.5	1067.5	1067.5	1061.5
152.5°	1095.8	1098.8	1099.8	1101.8	1096.8
155°	1130.0	1130.0	1131.0	1135.1	1128.0
157.5°	1159.3	1158.3	1159.3	1163.3	1157.2
160°	1186.5	1184.5	1184.5	1189.5	1185.5
162.5°	1210.7	1207.7	1208.7	1213.7	1206.6
165°	1230.8	1227.8	1227.8	1233.9	1226.8
167.5°	1248.0	1243.9	1244.9	1251.0	1244.9
170°	1262.1	1258.1	1258.1	1265.1	1258.1
172.5°	1273.2	1269.1	1269.1	1275.2	1268.1
175°	1280.2	1276.2	1276.2	1282.2	1275.2
177.5°	1284.3	1280.2	1280.2	1286.3	1279.2
180°	1283.3	1283.3	1283.3	1283.3	1283.3

(END OF REPORT)