

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: P335107

Luminaire Tested: **S125IW-S1050U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1050U830-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3952.1 lumens
Efficiency: N/A
Efficacy: 201.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

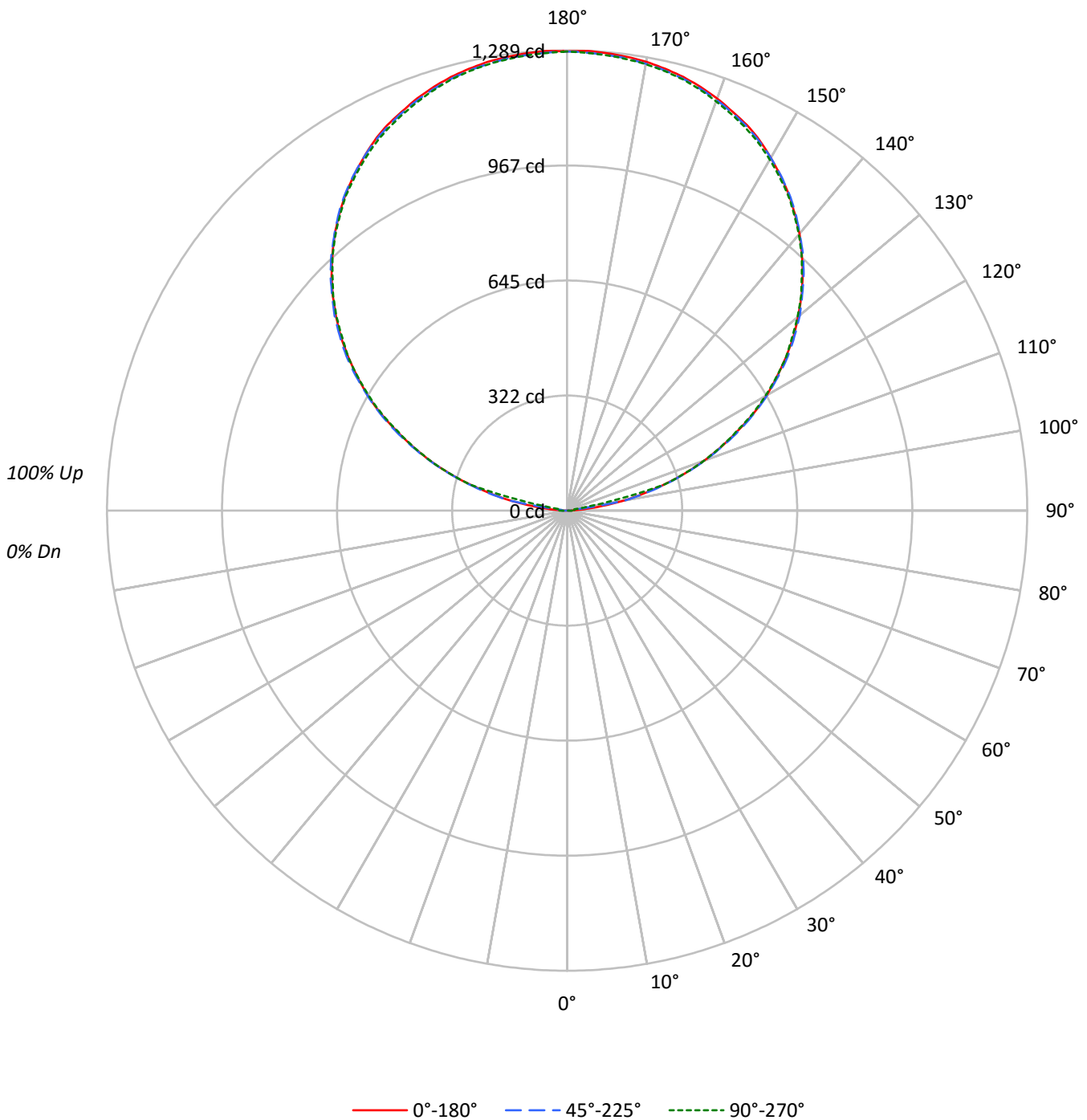
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335107

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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	0.0
90°-100°	43.7	1.1
100°-110°	290.2	7.3
110°-120°	522.6	13.2
120°-130°	670.8	17.0
130°-140°	721.5	18.3
140°-150°	677.2	17.1
150°-160°	547.7	13.9
160°-170°	354.2	9.0
170°-180°	122.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.0
90°-120°	856.5	21.7
90°-150°	2926.0	74.0
90°-180°	3950.0	99.9
0°-180°	3952.1	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	15	20	23	3
95°	54	52	15	20	20	67
105°	280	284	284	284	283	297
115°	526	531	532	528	522	522
125°	748	755	755	751	748	668
135°	933	939	937	935	929	719
145°	1082	1084	1084	1085	1079	677
155°	1192	1186	1188	1191	1183	549
165°	1257	1252	1253	1258	1251	355
175°	1286	1280	1281	1289	1280	122
180°	1286	1286	1286	1286	1286	



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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	8.6	15.3	20.0	22.9
92.5°	18.1	9.5	15.3	20.0	21.0
95°	54.3	51.5	15.3	20.0	20.0
97.5°	102.0	107.7	17.2	19.1	20.0
100°	159.2	162.1	165.9	23.8	20.0
102.5°	217.3	221.2	223.1	225.0	144.9
105°	280.3	284.1	284.1	284.1	283.1
107.5°	345.1	345.1	347.0	347.9	344.1
110°	408.0	408.0	409.9	407.0	408.0



TEST NUMBER: P335107

CATALOG NUMBER: S125IW-S1050U830-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	467.1	470.0	470.9	467.1	465.2
115°	526.2	531.0	531.9	528.1	522.4
117.5°	588.2	588.2	592.0	586.3	584.3
120°	645.4	644.4	647.3	645.4	640.6
122.5°	695.9	700.6	701.6	699.7	694.0
125°	748.3	755.0	755.0	751.2	748.3
127.5°	798.8	803.6	802.6	800.7	793.1
130°	844.6	849.4	850.3	847.4	842.7
132.5°	890.3	896.1	893.2	893.2	888.4
135°	933.2	939.0	937.1	935.1	929.4
137.5°	973.3	979.0	977.1	977.1	972.3
140°	1012.4	1014.3	1013.3	1015.2	1009.5
142.5°	1047.6	1048.6	1050.5	1050.5	1044.8
145°	1082.0	1083.9	1083.9	1084.8	1079.1
147.5°	1112.5	1112.5	1113.4	1114.4	1107.7
150°	1141.1	1139.1	1141.1	1143.0	1135.3
152.5°	1168.7	1163.9	1165.8	1167.7	1161.1
155°	1191.6	1185.9	1187.8	1190.6	1183.0
157.5°	1209.7	1206.8	1206.8	1209.7	1202.1
160°	1228.8	1223.0	1224.0	1227.8	1220.2
162.5°	1244.0	1238.3	1239.2	1245.0	1236.4
165°	1257.4	1251.6	1252.6	1258.3	1250.7
167.5°	1267.8	1262.1	1263.1	1269.7	1261.2
170°	1276.4	1269.7	1270.7	1278.3	1269.7
172.5°	1282.1	1275.5	1277.4	1284.0	1275.5
175°	1286.0	1280.2	1281.2	1288.8	1280.2
177.5°	1288.8	1283.1	1284.0	1290.7	1283.1
180°	1286.0	1286.0	1286.0	1286.0	1286.0

(END OF REPORT)