

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: P335112

Luminaire Tested: **S125IW-S1050U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335112
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-S1050U835-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.0 lumens
Efficiency: N/A
Efficacy: 213.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

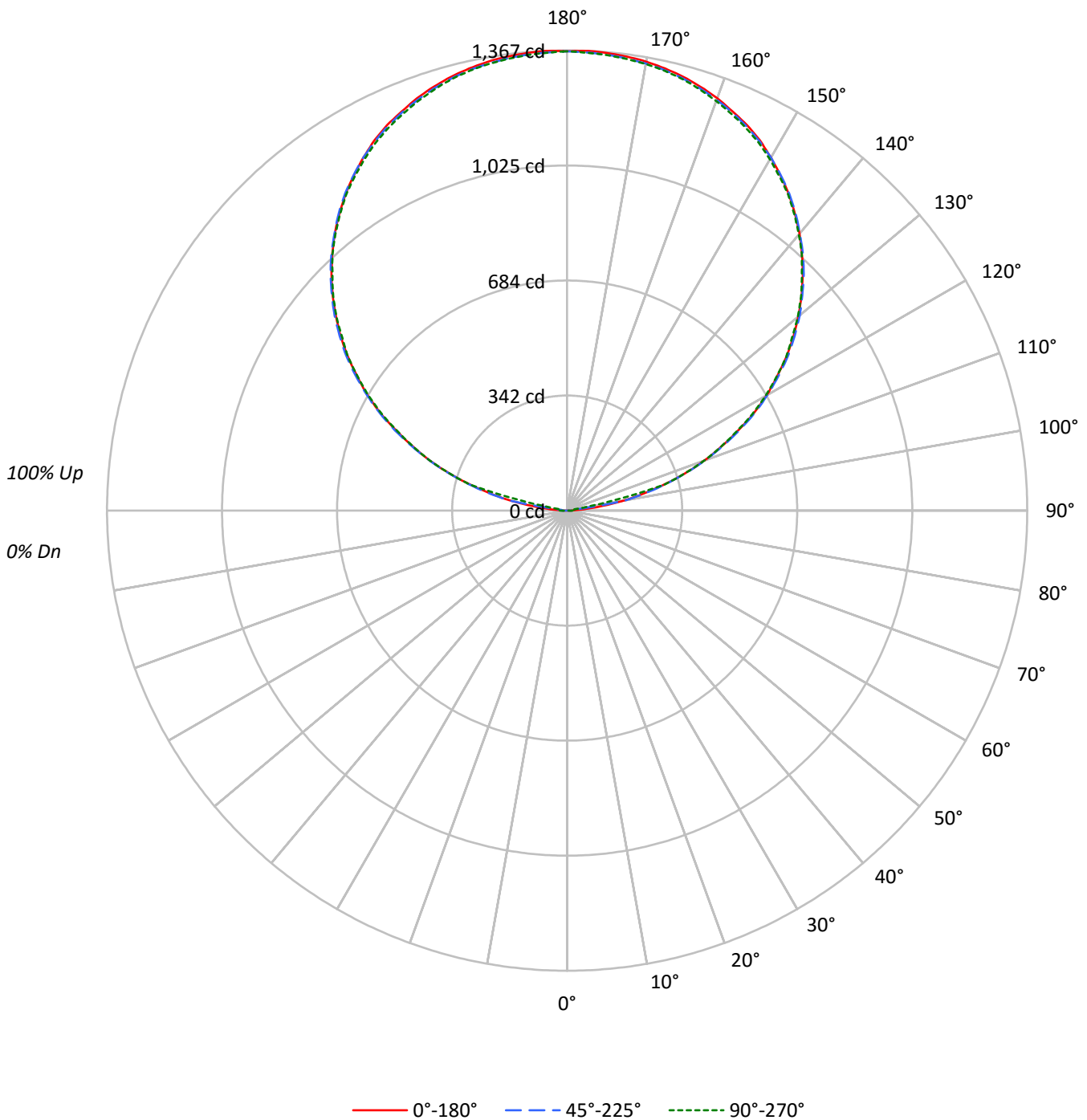
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335112

CATALOG NUMBER: S125IW-S1050U835-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P335112

CATALOG NUMBER: S125IW-S1050U835-4F0-1E-UDD

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



TEST NUMBER: P335112

CATALOG NUMBER: S125IW-S1050U835-4F0-1E-UDD

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°	2.0	0.0
90°-100°	46.3	1.1
100°-110°	307.9	7.3
110°-120°	554.5	13.2
120°-130°	711.7	17.0
130°-140°	765.5	18.3
140°-150°	718.4	17.1
150°-160°	581.1	13.9
160°-170°	375.8	9.0
170°-180°	129.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.0
90°-120°	908.7	21.7
90°-150°	3104.4	74.0
90°-180°	4191.0	100.0
0°-180°	4193.0	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	16	21	24	3
95°	58	55	16	21	21	71
105°	297	301	301	301	300	315
115°	558	563	564	560	554	553
125°	794	801	801	797	794	709
135°	990	996	994	992	986	763
145°	1148	1150	1150	1151	1145	718
155°	1264	1258	1260	1263	1255	583
165°	1334	1328	1329	1335	1327	377
175°	1364	1358	1359	1367	1358	130
180°	1364	1364	1364	1364	1364	



TEST NUMBER: P335112

CATALOG NUMBER: S125IW-S1050U835-4F0-1E-UDD

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	9.1	16.2	21.2	24.3
92.5°	19.2	10.1	16.2	21.2	22.3
95°	57.6	54.6	16.2	21.2	21.2
97.5°	108.2	114.3	18.2	20.2	21.2
100°	168.9	171.9	176.0	25.3	21.2
102.5°	230.6	234.6	236.7	238.7	153.7
105°	297.3	301.4	301.4	301.4	300.4
107.5°	366.1	366.1	368.1	369.2	365.1
110°	432.9	432.9	434.9	431.9	432.9



TEST NUMBER: P335112

CATALOG NUMBER: S125IW-S1050U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.6	498.6	499.6	495.6	493.5
115°	558.3	563.3	564.3	560.3	554.2
117.5°	624.0	624.0	628.1	622.0	620.0
120°	684.7	683.7	686.7	684.7	679.6
122.5°	738.3	743.4	744.4	742.3	736.3
125°	793.9	801.0	801.0	797.0	793.9
127.5°	847.5	852.6	851.6	849.6	841.5
130°	896.1	901.1	902.1	899.1	894.1
132.5°	944.6	950.7	947.7	947.7	942.6
135°	990.1	996.2	994.2	992.2	986.1
137.5°	1032.6	1038.7	1036.7	1036.7	1031.6
140°	1074.1	1076.1	1075.1	1077.1	1071.0
142.5°	1111.5	1112.5	1114.5	1114.5	1108.5
145°	1147.9	1149.9	1149.9	1150.9	1144.9
147.5°	1180.3	1180.3	1181.3	1182.3	1175.2
150°	1210.6	1208.6	1210.6	1212.6	1204.5
152.5°	1239.9	1234.9	1236.9	1238.9	1231.9
155°	1264.2	1258.1	1260.2	1263.2	1255.1
157.5°	1283.4	1280.4	1280.4	1283.4	1275.3
160°	1303.7	1297.6	1298.6	1302.6	1294.6
162.5°	1319.8	1313.8	1314.8	1320.9	1311.8
165°	1334.0	1327.9	1328.9	1335.0	1326.9
167.5°	1345.1	1339.1	1340.1	1347.1	1338.0
170°	1354.2	1347.1	1348.2	1356.3	1347.1
172.5°	1360.3	1353.2	1355.2	1362.3	1353.2
175°	1364.3	1358.3	1359.3	1367.4	1358.3
177.5°	1367.4	1361.3	1362.3	1369.4	1361.3
180°	1364.3	1364.3	1364.3	1364.3	1364.3

(END OF REPORT)