

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: P335127

Luminaire Tested: **S125IW-S1050U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335127  
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-S1050U930-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1050 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3418.5 lumens  
Efficiency: N/A  
Efficacy: 174.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

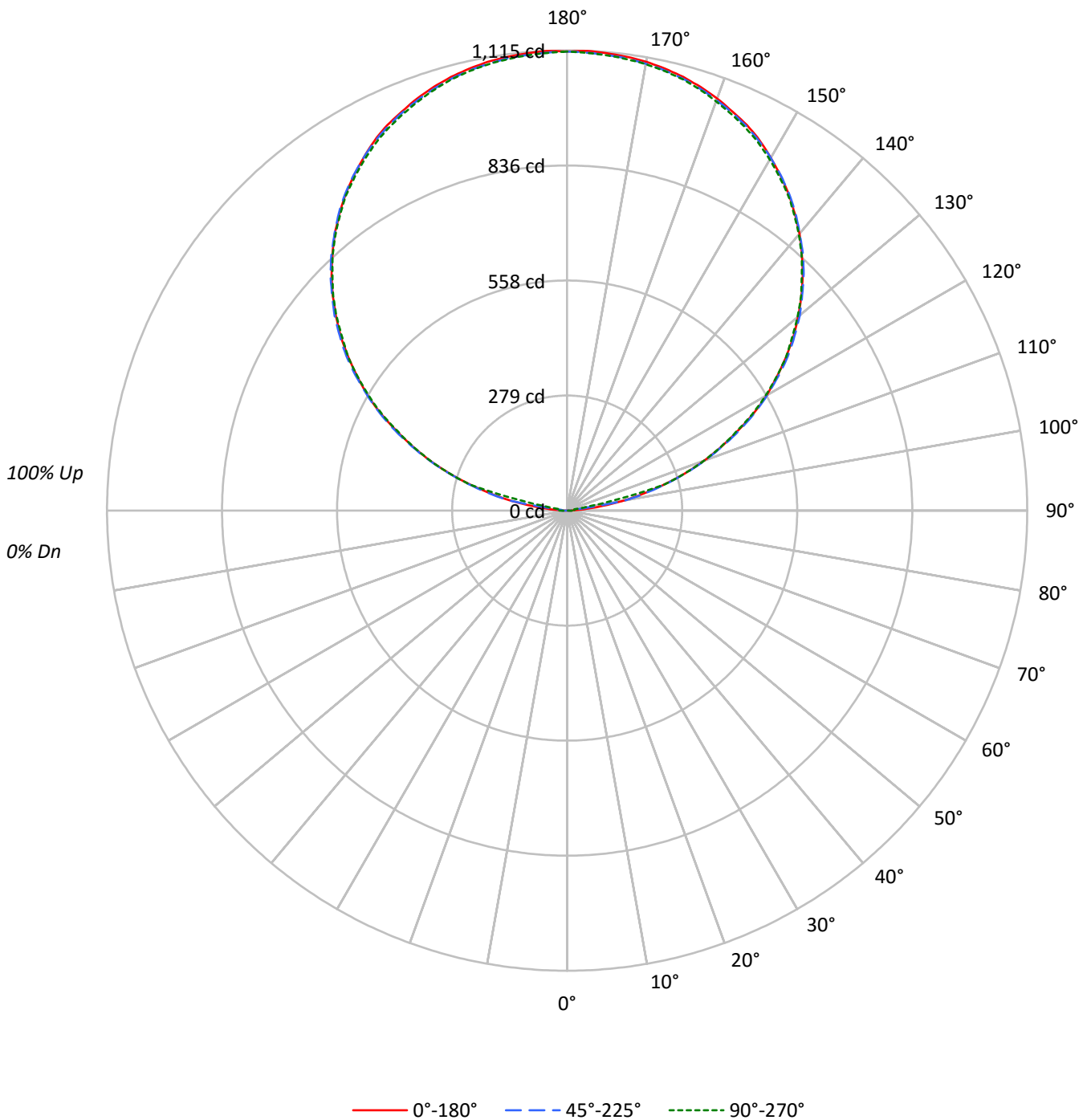
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1.7	0.0
90°-100°	37.7	1.1
100°-110°	251.0	7.3
110°-120°	452.1	13.2
120°-130°	580.3	17.0
130°-140°	624.1	18.3
140°-150°	585.7	17.1
150°-160°	473.8	13.9
160°-170°	306.4	9.0
170°-180°	105.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.0
90°-120°	740.9	21.7
90°-150°	2531.0	74.0
90°-180°	3417.0	100.0
0°-180°	3418.5	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	7	13	17	20	2
95°	47	44	13	17	17	58
105°	242	246	246	246	245	257
115°	455	459	460	457	452	451
125°	647	653	653	650	647	578
135°	807	812	811	809	804	622
145°	936	938	938	938	933	585
155°	1031	1026	1027	1030	1023	475
165°	1088	1083	1084	1088	1082	307
175°	1112	1107	1108	1115	1107	106
180°	1112	1112	1112	1112	1112	



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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	7.4	13.2	17.3	19.8
92.5°	15.7	8.2	13.2	17.3	18.1
95°	47.0	44.5	13.2	17.3	17.3
97.5°	88.2	93.2	14.8	16.5	17.3
100°	137.7	140.2	143.5	20.6	17.3
102.5°	188.0	191.3	192.9	194.6	125.3
105°	242.4	245.7	245.7	245.7	244.9
107.5°	298.5	298.5	300.1	301.0	297.7
110°	352.9	352.9	354.6	352.1	352.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	404.0	406.5	407.3	404.0	402.4
115°	455.2	459.3	460.1	456.8	451.9
117.5°	508.8	508.8	512.1	507.1	505.5
120°	558.2	557.4	559.9	558.2	554.1
122.5°	601.9	606.1	606.9	605.2	600.3
125°	647.3	653.1	653.1	649.8	647.3
127.5°	691.0	695.1	694.3	692.6	686.0
130°	730.6	734.7	735.5	733.0	728.9
132.5°	770.1	775.1	772.6	772.6	768.5
135°	807.3	812.2	810.6	808.9	804.0
137.5°	841.9	846.8	845.2	845.2	841.1
140°	875.7	877.3	876.5	878.2	873.2
142.5°	906.2	907.0	908.7	908.7	903.7
145°	935.9	937.5	937.5	938.4	933.4
147.5°	962.3	962.3	963.1	963.9	958.2
150°	987.0	985.4	987.0	988.7	982.1
152.5°	1010.9	1006.8	1008.5	1010.1	1004.3
155°	1030.7	1025.8	1027.4	1029.9	1023.3
157.5°	1046.4	1043.9	1043.9	1046.4	1039.8
160°	1062.9	1057.9	1058.7	1062.0	1055.5
162.5°	1076.1	1071.1	1071.9	1076.9	1069.5
165°	1087.6	1082.7	1083.5	1088.4	1081.8
167.5°	1096.7	1091.7	1092.6	1098.3	1090.9
170°	1104.1	1098.3	1099.2	1105.8	1098.3
172.5°	1109.0	1103.3	1104.9	1110.7	1103.3
175°	1112.3	1107.4	1108.2	1114.8	1107.4
177.5°	1114.8	1109.9	1110.7	1116.5	1109.9
180°	1112.3	1112.3	1112.3	1112.3	1112.3

(END OF REPORT)