

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: P335037

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
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-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
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: 3427.0 lumens  
Efficiency: N/A  
Efficacy: 174.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

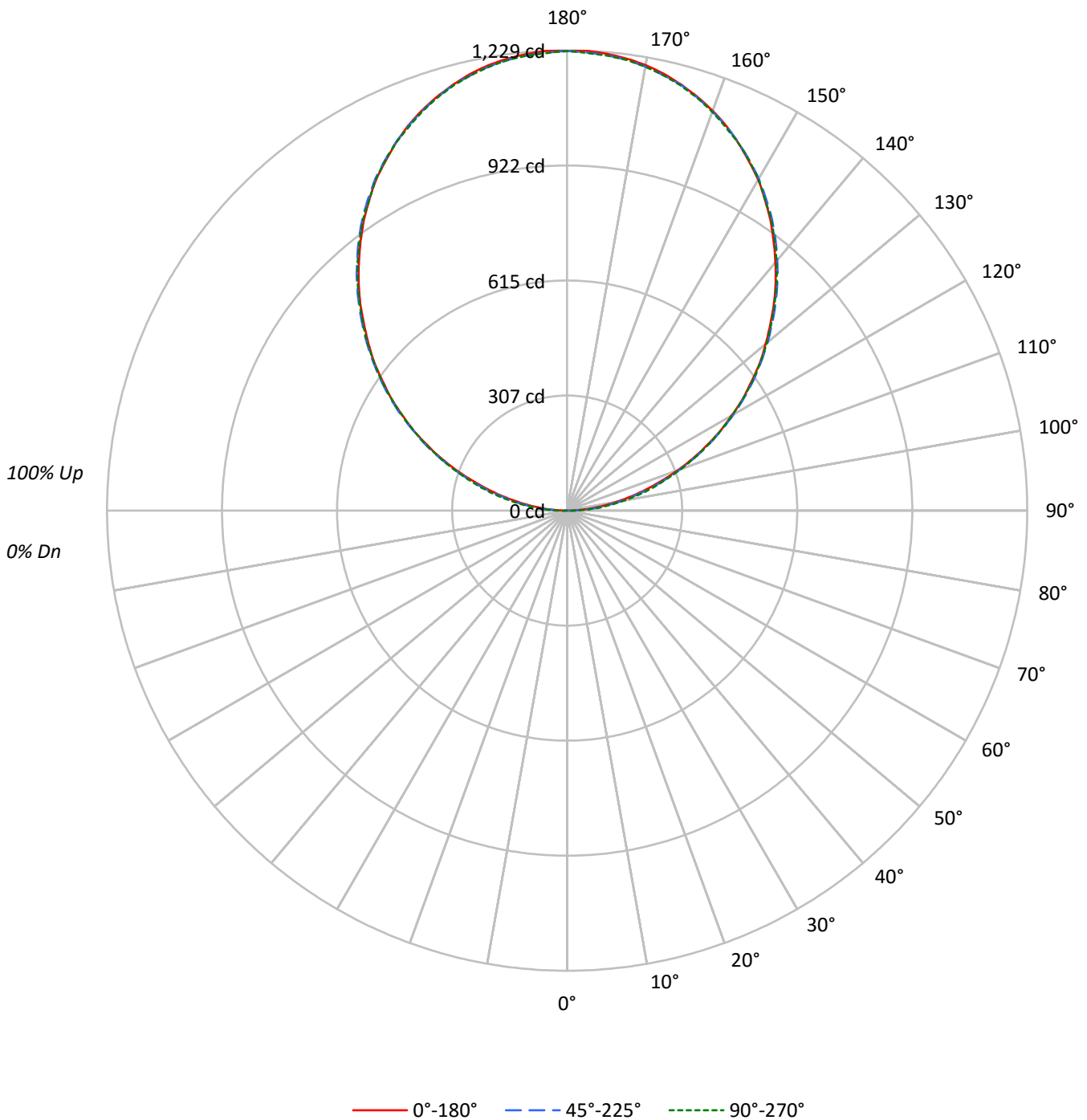
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0.1
90°-100°	81.6	2.4
100°-110°	242.4	7.1
110°-120°	411.2	12.0
120°-130°	541.3	15.8
130°-140°	606.5	17.7
140°-150°	594.5	17.3
150°-160°	499.4	14.6
160°-170°	332.0	9.7
170°-180°	116.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	735.2	21.5
90°-150°	2477.6	72.3
90°-180°	3425.0	99.9
0°-180°	3427.0	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	15	20	23	4
95°	62	64	74	80	82	65
105°	218	222	228	234	237	232
115°	412	415	417	416	415	407
125°	601	606	607	606	604	538
135°	781	787	788	788	784	602
145°	946	950	953	953	950	592
155°	1083	1083	1084	1088	1083	499
165°	1178	1176	1177	1180	1175	332
175°	1224	1220	1220	1226	1220	116
180°	1227	1227	1227	1227	1227	



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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	20.1	22.9
92.5°	28.7	33.4	42.0	48.7	50.6
95°	62.1	64.0	73.5	80.2	82.1
97.5°	95.5	96.5	109.8	115.6	116.5
100°	133.7	133.7	146.1	154.7	156.6
102.5°	174.8	179.5	184.3	193.9	196.7
105°	217.7	222.5	228.3	234.0	236.9
107.5°	264.5	269.3	274.1	277.0	277.0
110°	313.3	318.0	320.9	323.8	322.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	362.9	364.8	368.6	369.6	367.7
115°	411.6	415.4	417.4	416.4	415.4
117.5°	461.3	462.2	464.1	465.1	461.3
120°	507.1	511.9	512.9	512.9	509.0
122.5°	556.8	557.7	560.6	559.7	556.8
125°	600.7	606.5	607.4	605.5	604.5
127.5°	649.4	652.3	653.2	652.3	650.4
130°	692.4	697.2	699.1	698.1	696.2
132.5°	735.4	744.0	743.0	742.1	739.2
135°	781.2	787.0	787.9	787.9	784.1
137.5°	824.2	829.9	831.8	832.8	828.0
140°	865.3	870.0	872.9	874.8	870.0
142.5°	906.3	910.2	914.0	914.9	910.2
145°	946.4	950.3	953.1	953.1	950.3
147.5°	983.7	986.6	988.5	991.3	983.7
150°	1020.9	1020.0	1023.8	1023.8	1021.9
152.5°	1051.5	1053.4	1054.4	1057.2	1053.4
155°	1083.0	1083.0	1084.0	1087.8	1083.0
157.5°	1111.7	1109.8	1110.7	1114.5	1107.8
160°	1136.5	1133.6	1134.6	1138.4	1133.6
162.5°	1158.5	1156.6	1156.6	1161.3	1155.6
165°	1177.6	1175.7	1176.6	1180.4	1174.7
167.5°	1194.8	1190.9	1190.9	1196.7	1190.9
170°	1208.1	1204.3	1204.3	1210.0	1203.4
172.5°	1217.7	1213.9	1213.9	1219.6	1213.9
175°	1224.4	1220.5	1220.5	1226.3	1219.6
177.5°	1229.1	1225.3	1224.4	1230.1	1223.4
180°	1227.2	1227.2	1227.2	1227.2	1227.2

(END OF REPORT)