

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: P335046

Luminaire Tested: **S125IW-S770U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335046  
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-S770U840-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 770 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2690.1 lumens  
Efficiency: N/A  
Efficacy: 192.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

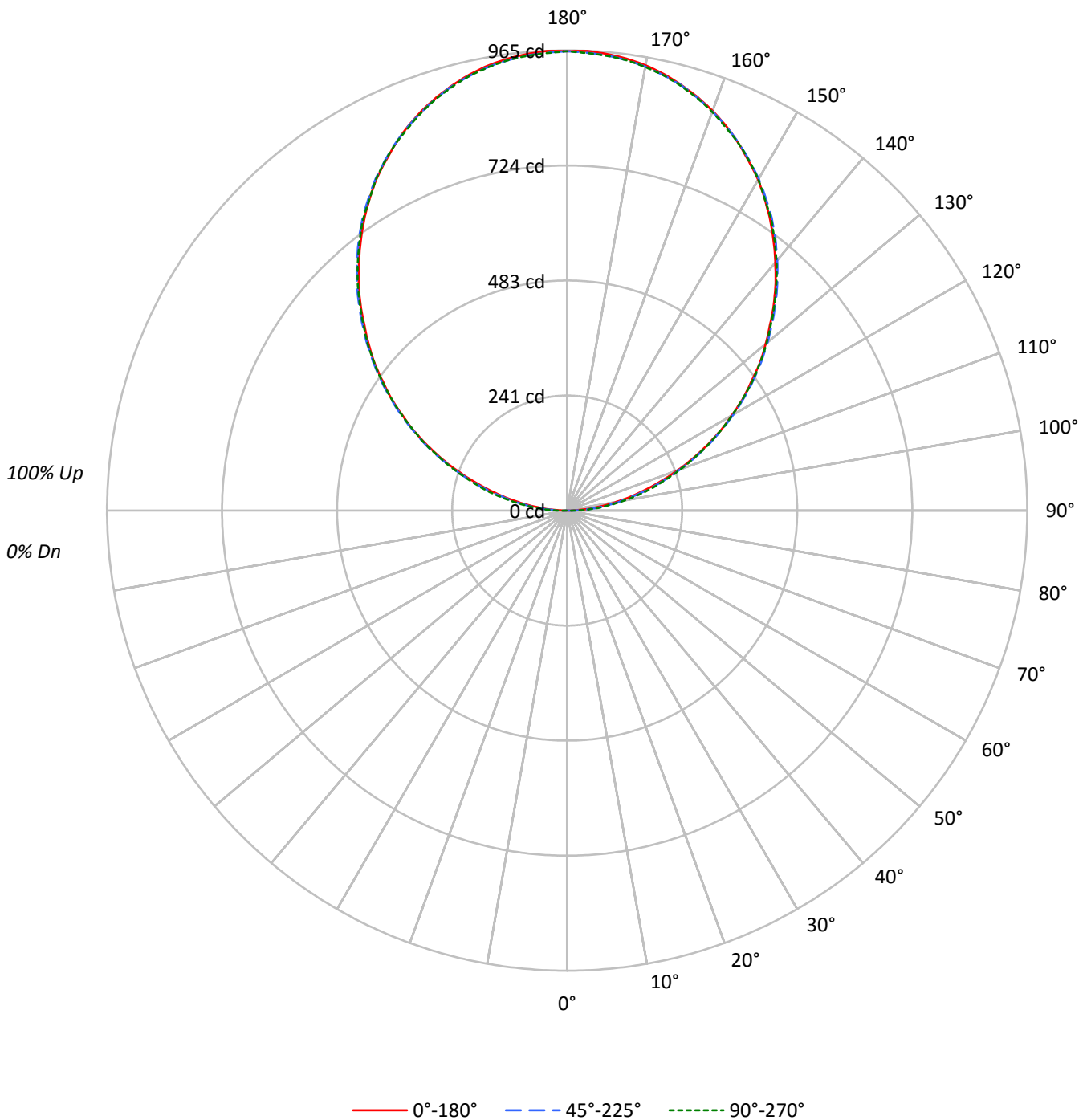
Input Watts (W): 14  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1.5	0.1
90°-100°	64.0	2.4
100°-110°	190.3	7.1
110°-120°	322.7	12.0
120°-130°	424.9	15.8
130°-140°	476.1	17.7
140°-150°	466.7	17.3
150°-160°	392.0	14.6
160°-170°	260.6	9.7
170°-180°	91.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	577.1	21.5
90°-150°	1944.8	72.3
90°-180°	2689.0	100.0
0°-180°	2690.1	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	7	12	16	18	3
95°	49	50	58	63	64	51
105°	171	175	179	184	186	182
115°	323	326	328	327	326	320
125°	472	476	477	475	474	422
135°	613	618	618	618	616	473
145°	743	746	748	748	746	464
155°	850	850	851	854	850	392
165°	924	923	924	927	922	261
175°	961	958	958	963	957	91
180°	963	963	963	963	963	



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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°	0.7	6.7	12.0	15.7	18.0
92.5°	22.5	26.2	33.0	38.2	39.7
95°	48.7	50.2	57.7	63.0	64.5
97.5°	75.0	75.7	86.2	90.7	91.5
100°	105.0	105.0	114.7	121.4	122.9
102.5°	137.2	140.9	144.7	152.2	154.4
105°	170.9	174.7	179.2	183.7	185.9
107.5°	207.7	211.4	215.2	217.4	217.4
110°	245.9	249.6	251.9	254.1	253.4



TEST NUMBER: P335046

CATALOG NUMBER: S125IW-S770U840-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	286.4	289.4	290.1	288.6
115°	323.1	326.1	327.6	326.9	326.1
117.5°	362.1	362.8	364.3	365.1	362.1
120°	398.1	401.8	402.6	402.6	399.6
122.5°	437.1	437.8	440.1	439.3	437.1
125°	471.5	476.0	476.8	475.3	474.5
127.5°	509.8	512.0	512.8	512.0	510.5
130°	543.5	547.3	548.8	548.0	546.5
132.5°	577.2	584.0	583.2	582.5	580.2
135°	613.2	617.7	618.5	618.5	615.5
137.5°	647.0	651.5	653.0	653.7	650.0
140°	679.2	682.9	685.2	686.7	682.9
142.5°	711.4	714.4	717.4	718.2	714.4
145°	742.9	745.9	748.2	748.2	745.9
147.5°	772.2	774.4	775.9	778.2	772.2
150°	801.4	800.6	803.6	803.6	802.1
152.5°	825.4	826.9	827.6	829.9	826.9
155°	850.1	850.1	850.9	853.9	850.1
157.5°	872.6	871.1	871.9	874.9	869.6
160°	892.1	889.9	890.6	893.6	889.9
162.5°	909.4	907.9	907.9	911.6	907.1
165°	924.3	922.8	923.6	926.6	922.1
167.5°	937.8	934.8	934.8	939.3	934.8
170°	948.3	945.3	945.3	949.8	944.6
172.5°	955.8	952.8	952.8	957.3	952.8
175°	961.1	958.1	958.1	962.6	957.3
177.5°	964.8	961.8	961.1	965.6	960.3
180°	963.3	963.3	963.3	963.3	963.3

(END OF REPORT)