

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: P335121

Luminaire Tested: **S125IW-S770U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335121  
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-S770U927-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 770 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

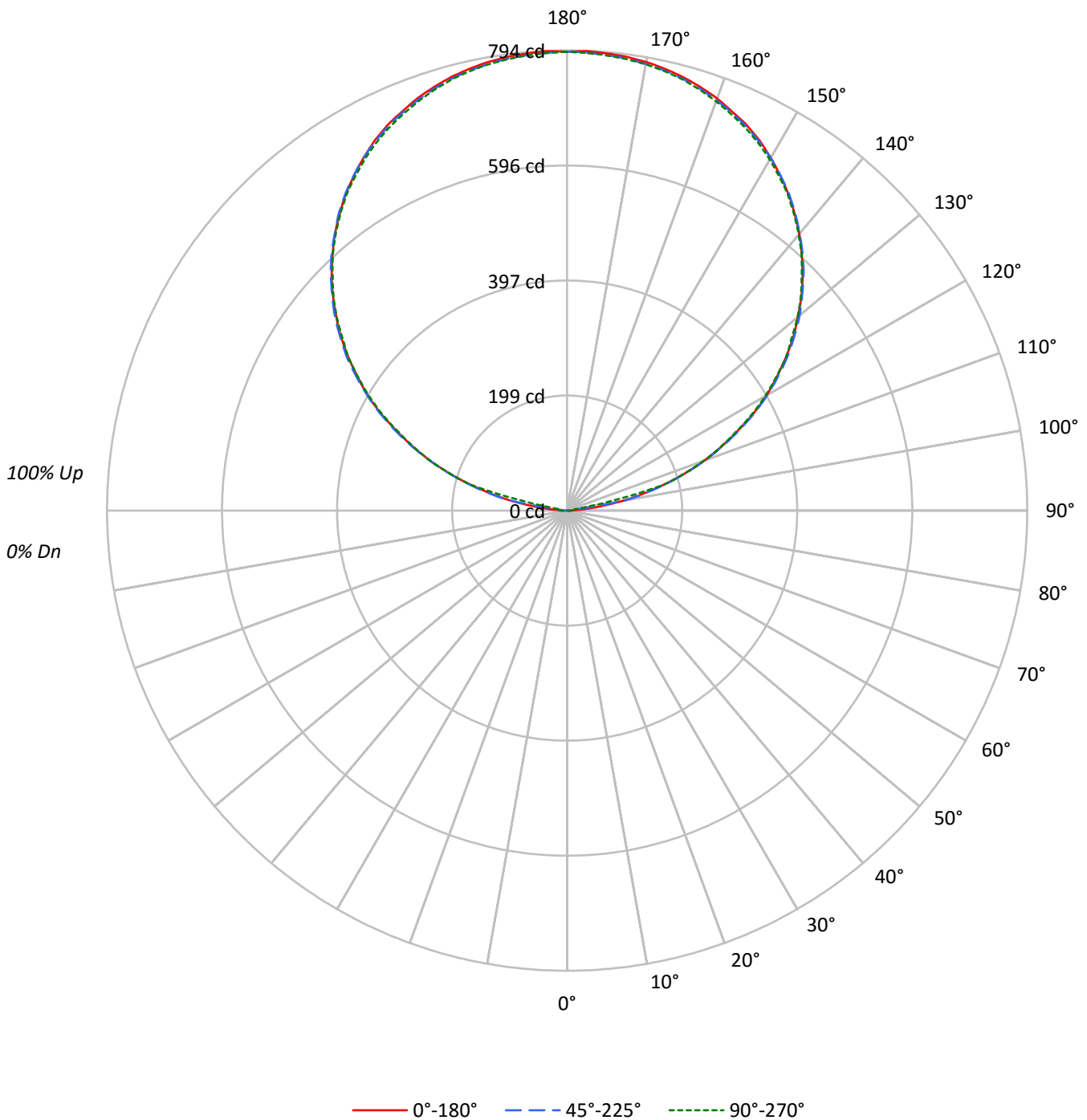
Lumens per Lamp: N/A  
Luminaire Lumens: 2433.5 lumens  
Efficiency: N/A  
Efficacy: 173.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 14  
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°	1.2	0.0
90°-100°	26.9	1.1
100°-110°	178.7	7.3
110°-120°	321.8	13.2
120°-130°	413.1	17.0
130°-140°	444.3	18.3
140°-150°	417.0	17.1
150°-160°	337.3	13.9
160°-170°	218.1	9.0
170°-180°	75.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.0
90°-120°	527.4	21.7
90°-150°	1801.7	74.0
90°-180°	2432.0	99.9
0°-180°	2433.5	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	5	9	12	14	2
95°	34	32	9	12	12	41
105°	173	175	175	175	174	183
115°	324	327	328	325	322	321
125°	461	465	465	462	461	412
135°	575	578	577	576	572	443
145°	666	667	667	668	664	417
155°	734	730	731	733	728	338
165°	774	771	771	775	770	219
175°	792	788	789	794	788	75
180°	792	792	792	792	792	



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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°	0.6	5.3	9.4	12.3	14.1
92.5°	11.2	5.9	9.4	12.3	12.9
95°	33.5	31.7	9.4	12.3	12.3
97.5°	62.8	66.3	10.6	11.7	12.3
100°	98.0	99.8	102.1	14.7	12.3
102.5°	133.8	136.2	137.4	138.5	89.2
105°	172.6	174.9	174.9	174.9	174.3
107.5°	212.5	212.5	213.7	214.2	211.9
110°	251.2	251.2	252.4	250.6	251.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	287.6	289.4	290.0	287.6	286.4
115°	324.0	326.9	327.5	325.2	321.7
117.5°	362.2	362.2	364.5	361.0	359.8
120°	397.4	396.8	398.6	397.4	394.4
122.5°	428.5	431.4	432.0	430.8	427.3
125°	460.8	464.9	464.9	462.5	460.8
127.5°	491.9	494.8	494.2	493.1	488.4
130°	520.1	523.0	523.6	521.8	518.9
132.5°	548.2	551.8	550.0	550.0	547.1
135°	574.7	578.2	577.0	575.8	572.3
137.5°	599.3	602.8	601.7	601.7	598.7
140°	623.4	624.5	624.0	625.1	621.6
142.5°	645.1	645.7	646.9	646.9	643.3
145°	666.2	667.4	667.4	668.0	664.5
147.5°	685.0	685.0	685.6	686.2	682.1
150°	702.6	701.4	702.6	703.8	699.1
152.5°	719.6	716.7	717.9	719.0	714.9
155°	733.7	730.2	731.4	733.1	728.4
157.5°	744.9	743.1	743.1	744.9	740.2
160°	756.6	753.1	753.7	756.0	751.3
162.5°	766.0	762.5	763.1	766.6	761.3
165°	774.2	770.7	771.3	774.8	770.1
167.5°	780.7	777.2	777.7	781.9	776.6
170°	786.0	781.9	782.4	787.1	781.9
172.5°	789.5	785.4	786.6	790.7	785.4
175°	791.8	788.3	788.9	793.6	788.3
177.5°	793.6	790.1	790.7	794.8	790.1
180°	791.8	791.8	791.8	791.8	791.8

(END OF REPORT)