

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: P335136

Luminaire Tested: **S125IW-S770U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335136
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-S770U940-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

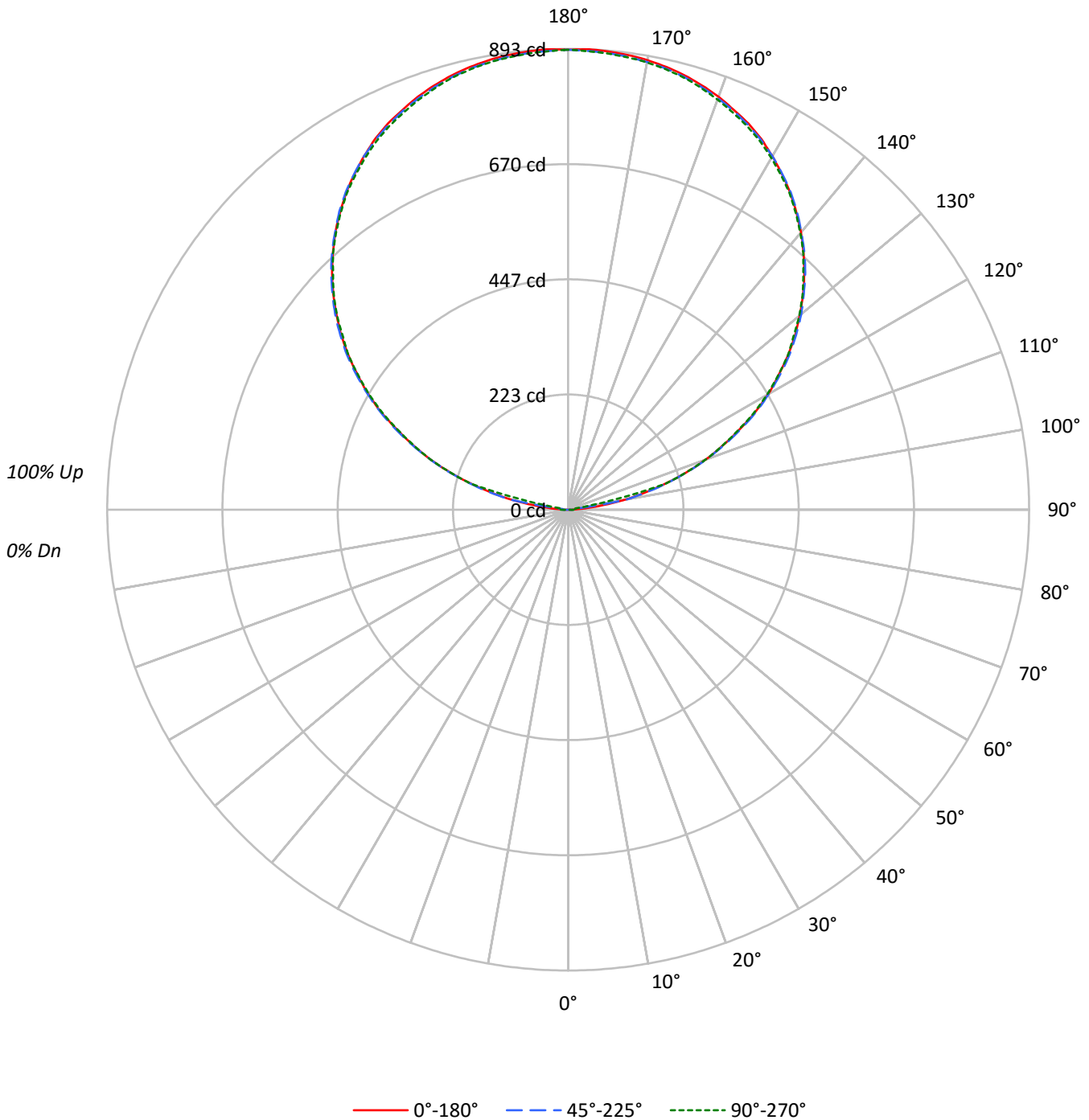
Lumens per Lamp: N/A
Luminaire Lumens: 2739.3 lumens
Efficiency: N/A
Efficacy: 195.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	1.3	0.0
90°-100°	30.3	1.1
100°-110°	201.2	7.3
110°-120°	362.2	13.2
120°-130°	465.0	17.0
130°-140°	500.1	18.3
140°-150°	469.4	17.1
150°-160°	379.7	13.9
160°-170°	245.5	9.0
170°-180°	84.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.3	0.0
90°-120°	593.7	21.7
90°-150°	2028.1	74.0
90°-180°	2738.0	100.0
0°-180°	2739.3	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	6	11	14	16	2
95°	38	36	11	14	14	46
105°	194	197	197	197	196	206
115°	365	368	369	366	362	362
125°	519	523	523	521	519	463
135°	647	651	650	648	644	499
145°	750	751	751	752	748	469
155°	826	822	823	825	820	381
165°	872	868	868	872	867	246
175°	891	887	888	893	887	85
180°	891	891	891	891	891	



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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	5.9	10.6	13.9	15.9
92.5°	12.6	6.6	10.6	13.9	14.5
95°	37.7	35.7	10.6	13.9	13.9
97.5°	70.7	74.7	11.9	13.2	13.9
100°	110.3	112.3	115.0	16.5	13.9
102.5°	150.6	153.3	154.6	155.9	100.4
105°	194.3	196.9	196.9	196.9	196.2
107.5°	239.2	239.2	240.5	241.2	238.5
110°	282.8	282.8	284.1	282.1	282.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	323.8	325.7	326.4	323.8	322.4
115°	364.7	368.0	368.7	366.0	362.1
117.5°	407.7	407.7	410.3	406.3	405.0
120°	447.3	446.7	448.6	447.3	444.0
122.5°	482.3	485.6	486.3	485.0	481.0
125°	518.7	523.3	523.3	520.7	518.7
127.5°	553.7	557.0	556.3	555.0	549.7
130°	585.4	588.7	589.4	587.4	584.1
132.5°	617.1	621.1	619.1	619.1	615.8
135°	646.9	650.8	649.5	648.2	644.2
137.5°	674.6	678.6	677.2	677.2	673.9
140°	701.7	703.0	702.4	703.7	699.7
142.5°	726.1	726.8	728.1	728.1	724.2
145°	749.9	751.2	751.2	751.9	747.9
147.5°	771.1	771.1	771.7	772.4	767.8
150°	790.9	789.6	790.9	792.2	786.9
152.5°	810.0	806.7	808.1	809.4	804.8
155°	825.9	821.9	823.3	825.2	820.0
157.5°	838.5	836.5	836.5	838.5	833.2
160°	851.7	847.7	848.4	851.0	845.7
162.5°	862.2	858.3	858.9	862.9	857.0
165°	871.5	867.5	868.2	872.2	866.9
167.5°	878.8	874.8	875.5	880.1	874.1
170°	884.7	880.1	880.7	886.0	880.1
172.5°	888.7	884.1	885.4	890.0	884.1
175°	891.3	887.4	888.0	893.3	887.4
177.5°	893.3	889.3	890.0	894.6	889.3
180°	891.3	891.3	891.3	891.3	891.3

(END OF REPORT)