

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: P335106

Luminaire Tested: **S125IW-S770U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335106
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-S770U830-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

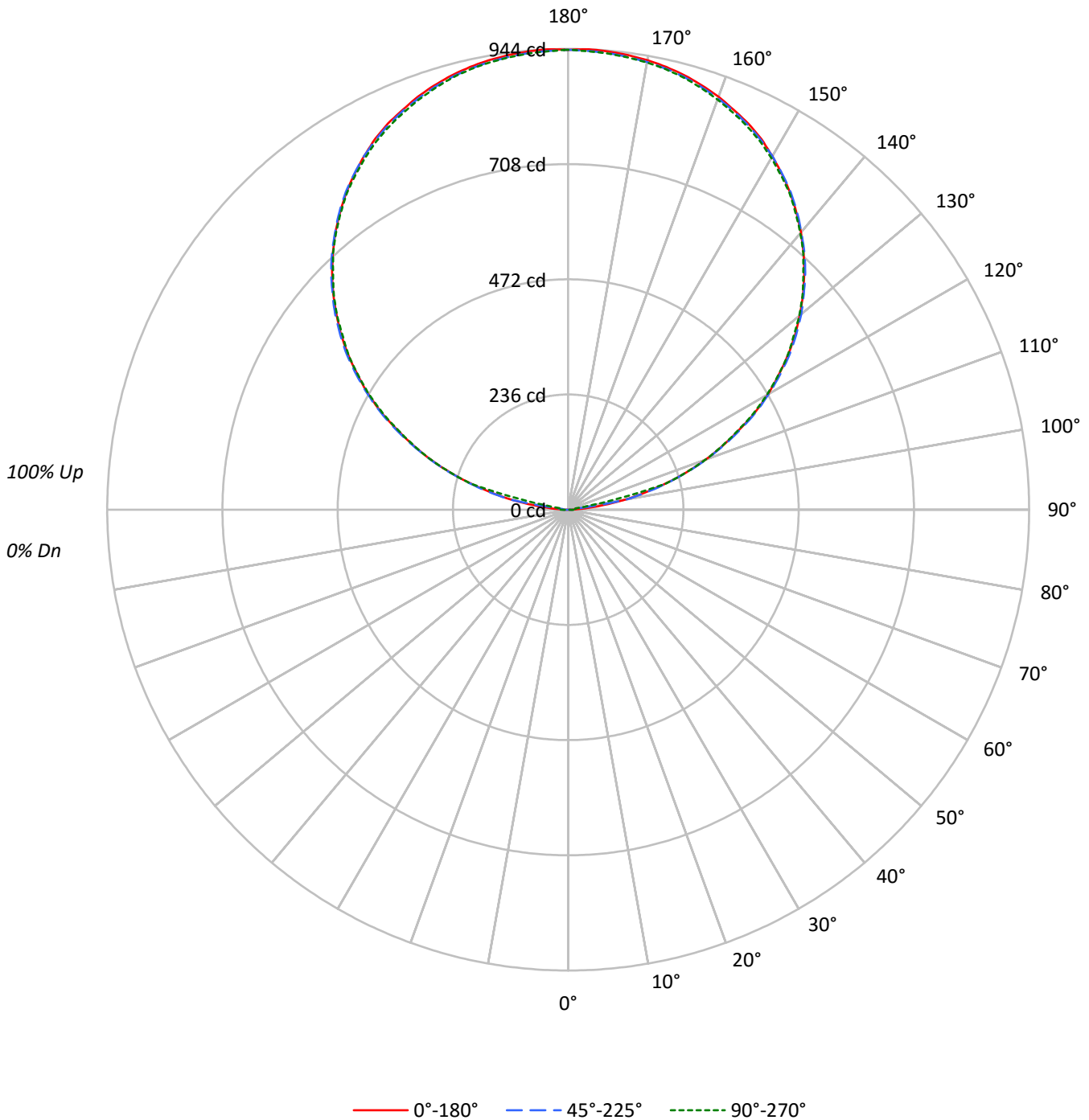
Lumens per Lamp: N/A
Luminaire Lumens: 2895.4 lumens
Efficiency: N/A
Efficacy: 206.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (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°	1.4	0.0
90°-100°	32.0	1.1
100°-110°	212.6	7.3
110°-120°	382.9	13.2
120°-130°	491.5	17.0
130°-140°	528.6	18.3
140°-150°	496.1	17.1
150°-160°	401.3	13.9
160°-170°	259.5	9.0
170°-180°	89.5	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.0
90°-120°	627.5	21.7
90°-150°	2143.7	74.0
90°-180°	2894.0	100.0
0°-180°	2895.4	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	15	17	2
95°	40	38	11	15	15	49
105°	205	208	208	208	207	217
115°	386	389	390	387	383	382
125°	548	553	553	550	548	490
135°	684	688	686	685	681	527
145°	793	794	794	795	791	496
155°	873	869	870	872	867	402
165°	921	917	918	922	916	260
175°	942	938	939	944	938	90
180°	942	942	942	942	942	



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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	6.3	11.2	14.7	16.8
92.5°	13.3	7.0	11.2	14.7	15.4
95°	39.8	37.7	11.2	14.7	14.7
97.5°	74.7	78.9	12.6	14.0	14.7
100°	116.6	118.7	121.5	17.5	14.7
102.5°	159.2	162.0	163.4	164.8	106.2
105°	205.3	208.1	208.1	208.1	207.4
107.5°	252.8	252.8	254.2	254.9	252.1
110°	298.9	298.9	300.3	298.2	298.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	342.2	344.3	345.0	342.2	340.8
115°	385.5	389.0	389.7	386.9	382.7
117.5°	430.9	430.9	433.7	429.5	428.1
120°	472.8	472.1	474.2	472.8	469.3
122.5°	509.8	513.3	514.0	512.6	508.4
125°	548.2	553.1	553.1	550.3	548.2
127.5°	585.3	588.7	588.0	586.6	581.1
130°	618.8	622.3	623.0	620.9	617.4
132.5°	652.3	656.5	654.4	654.4	650.9
135°	683.7	687.9	686.5	685.1	680.9
137.5°	713.1	717.2	715.8	715.8	712.4
140°	741.7	743.1	742.4	743.8	739.6
142.5°	767.5	768.2	769.6	769.6	765.4
145°	792.7	794.1	794.1	794.8	790.6
147.5°	815.0	815.0	815.7	816.4	811.5
150°	836.0	834.6	836.0	837.4	831.8
152.5°	856.2	852.7	854.1	855.5	850.6
155°	873.0	868.8	870.2	872.3	866.7
157.5°	886.3	884.2	884.2	886.3	880.7
160°	900.2	896.0	896.7	899.5	893.9
162.5°	911.4	907.2	907.9	912.1	905.8
165°	921.2	917.0	917.7	921.9	916.3
167.5°	928.9	924.7	925.4	930.3	924.0
170°	935.1	930.3	931.0	936.5	930.3
172.5°	939.3	934.4	935.8	940.7	934.4
175°	942.1	937.9	938.6	944.2	937.9
177.5°	944.2	940.0	940.7	945.6	940.0
180°	942.1	942.1	942.1	942.1	942.1

(END OF REPORT)