

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: P334606

Luminaire Tested: **S122IW-S710U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S710U935-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 710 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

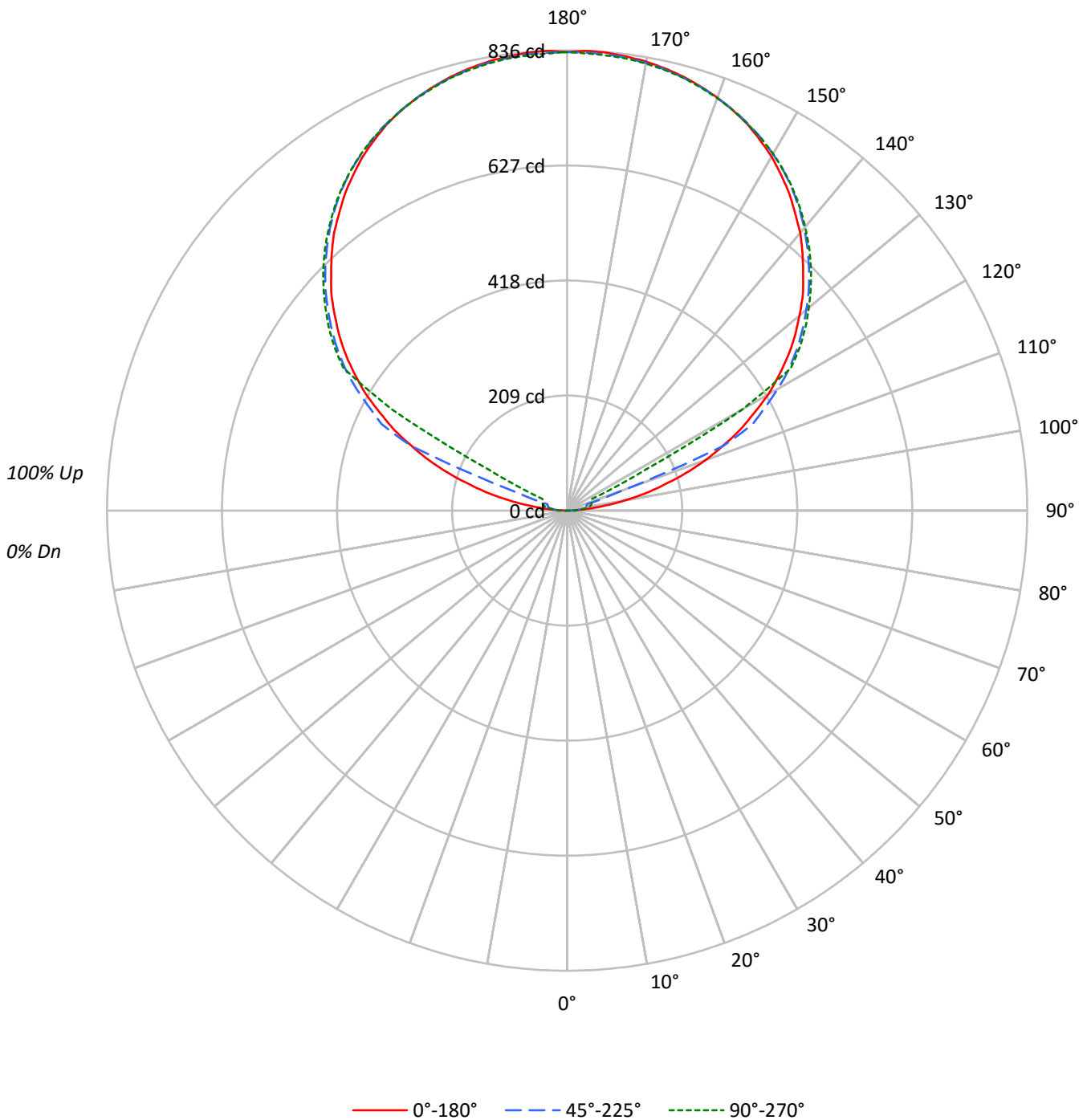
Lumens per Lamp: N/A
Luminaire Lumens: 2443.5 lumens
Efficiency: N/A
Efficacy: 174.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): 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°	27.5	1.1
100°-110°	102.4	4.2
110°-120°	271.6	11.1
120°-130°	450.4	18.4
130°-140°	478.4	19.6
140°-150°	444.7	18.2
150°-160°	357.5	14.6
160°-170°	230.4	9.4
170°-180°	79.3	3.2
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°	401.4	16.4
90°-150°	1774.9	72.6
90°-180°	2442.0	99.9
0°-180°	2443.5	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	7	12	15	16	2
95°	39	19	24	26	26	46
105°	183	201	37	43	46	196
115°	347	357	372	93	49	341
125°	490	498	509	514	515	437
135°	606	616	621	628	626	468
145°	703	703	713	717	714	440
155°	774	769	776	780	775	357
165°	816	812	814	818	814	231
175°	835	831	832	836	830	79
180°	833	833	833	833	833	



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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	7.2	12.1	15.1	16.3
92.5°	15.1	12.7	14.5	15.7	16.3
95°	39.2	19.3	23.5	26.5	25.9
97.5°	70.5	21.1	30.7	32.5	33.2
100°	106.7	24.1	34.4	39.2	40.4
102.5°	146.5	145.3	35.6	42.2	44.0
105°	183.2	201.3	36.8	43.4	45.8
107.5°	226.0	241.1	38.0	44.6	47.0
110°	267.0	279.7	105.5	45.2	47.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	305.6	316.4	306.2	46.4	48.2
115°	346.6	356.8	371.9	92.8	49.4
117.5°	382.1	394.2	404.4	318.2	160.3
120°	421.9	431.0	441.8	449.0	367.7
122.5°	455.7	465.3	477.4	481.0	481.6
125°	490.0	497.9	509.3	513.5	515.3
127.5°	521.4	529.8	538.9	544.9	545.5
130°	550.9	560.6	567.2	573.8	573.2
132.5°	581.0	588.9	595.5	600.9	600.3
135°	606.4	616.0	621.4	627.5	626.3
137.5°	632.9	640.1	646.1	652.2	650.4
140°	658.8	663.6	670.3	675.7	672.7
142.5°	680.5	684.7	692.6	697.4	694.4
145°	703.4	702.8	713.0	717.3	714.3
147.5°	723.3	721.5	731.7	734.7	732.3
150°	742.6	738.4	748.0	751.6	748.6
152.5°	758.9	754.0	763.1	766.7	762.5
155°	774.5	769.1	776.3	780.0	775.1
157.5°	787.2	782.4	787.8	792.0	787.2
160°	798.0	794.4	798.0	801.7	797.4
162.5°	807.7	804.1	807.1	811.3	805.9
165°	816.1	812.5	814.3	818.5	814.3
167.5°	822.7	819.1	820.9	825.2	819.7
170°	828.2	824.6	825.8	830.0	824.6
172.5°	831.8	828.2	829.4	833.6	828.2
175°	834.8	830.6	831.8	836.0	830.0
177.5°	836.0	831.8	832.4	836.6	831.2
180°	833.0	833.0	833.0	833.0	833.0

(END OF REPORT)