

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: P334541

Luminaire Tested: **S122IW-S710U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S710U940-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 710 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.4 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

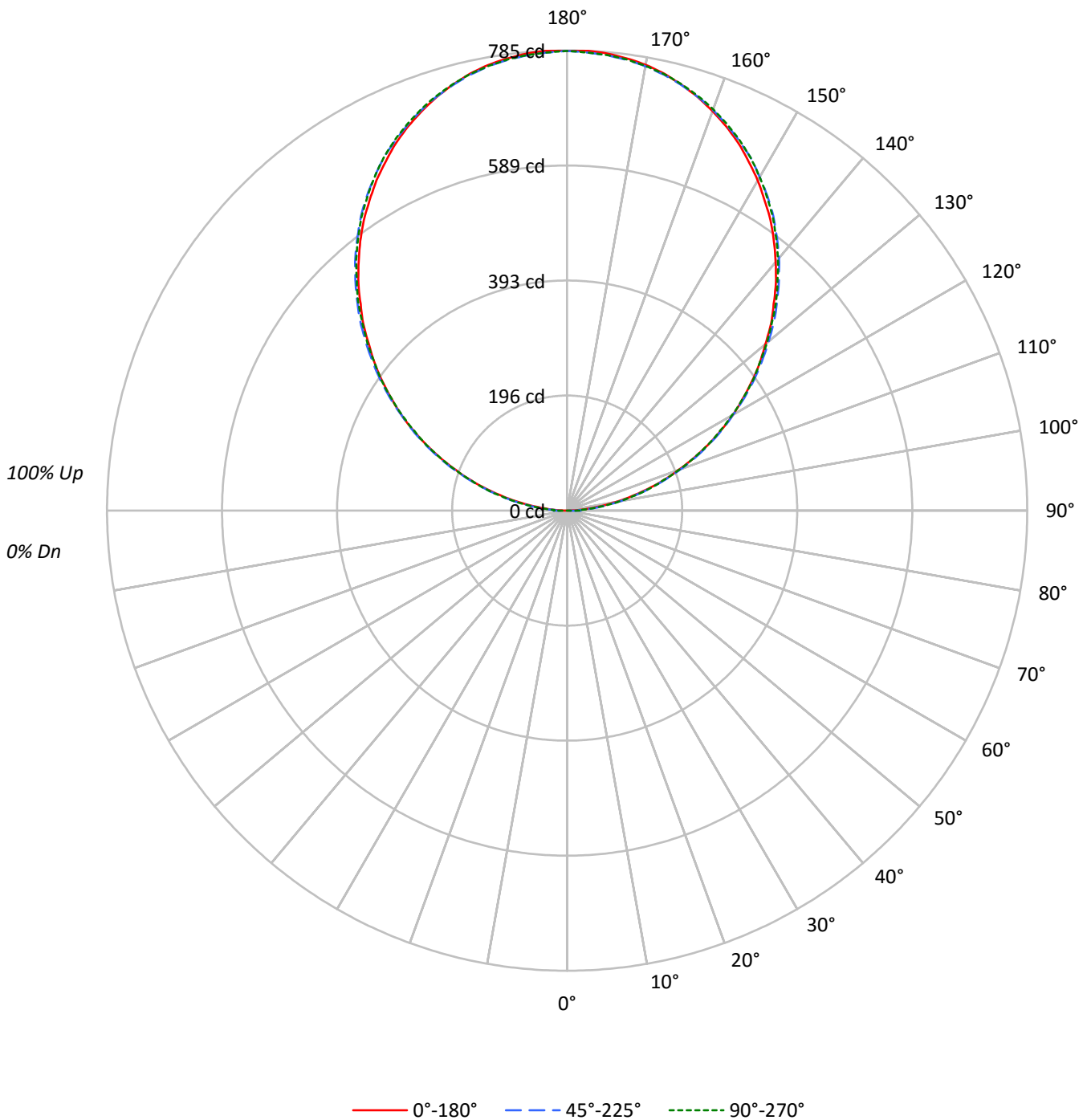
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.2	0.1
90°-100°	48.5	2.2
100°-110°	154.2	7.0
110°-120°	263.9	12.0
120°-130°	347.0	15.8
130°-140°	389.5	17.7
140°-150°	382.0	17.4
150°-160°	320.4	14.6
160°-170°	212.5	9.7
170°-180°	74.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	466.6	21.3
90°-150°	1585.0	72.2
90°-180°	2192.0	99.9
0°-180°	2194.4	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	9	23	22	22	2
95°	34	41	42	42	41	38
105°	142	144	146	147	147	150
115°	265	269	267	267	265	262
125°	385	391	389	387	386	344
135°	498	506	507	506	504	385
145°	605	609	613	614	611	378
155°	692	694	695	699	697	318
165°	752	752	752	756	753	212
175°	783	781	780	784	780	74
180°	784	784	784	784	784	



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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	8.6	23.2	21.8	22.5
92.5°	14.6	19.9	20.5	21.2	21.2
95°	34.4	41.0	42.3	42.3	41.0
97.5°	57.6	63.5	66.2	66.2	66.2
100°	84.0	89.3	91.3	91.3	90.7
102.5°	111.8	115.8	118.4	119.1	118.4
105°	142.3	144.2	145.6	146.9	146.9
107.5°	172.7	175.3	175.3	176.0	172.7
110°	201.8	205.8	205.8	205.8	203.8



TEST NUMBER: P334541

CATALOG NUMBER: S122IW-S710U940-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.6	237.5	236.9	234.9	233.6
115°	264.7	268.6	267.3	266.7	264.7
117.5°	295.8	301.1	297.8	295.8	293.8
120°	326.9	332.2	326.9	326.9	324.9
122.5°	355.3	361.9	358.6	356.7	355.3
125°	385.1	391.1	389.1	387.1	386.4
127.5°	414.2	421.5	418.9	416.2	414.2
130°	441.4	450.0	448.6	447.3	444.7
132.5°	471.8	478.4	479.1	475.8	473.8
135°	498.3	505.5	506.9	506.2	504.2
137.5°	527.4	533.3	534.6	534.0	531.3
140°	553.2	559.1	562.4	562.4	559.8
142.5°	579.6	585.6	587.6	588.2	585.6
145°	604.8	609.4	613.4	614.1	611.4
147.5°	627.3	633.2	635.9	637.2	634.6
150°	650.4	654.4	657.1	659.0	657.1
152.5°	671.0	674.9	678.2	680.9	678.2
155°	691.5	693.5	695.4	698.7	696.8
157.5°	709.3	710.7	712.0	716.6	713.3
160°	725.2	726.5	727.2	731.2	728.5
162.5°	739.8	739.8	740.4	745.1	741.8
165°	752.3	751.7	751.7	756.3	753.0
167.5°	763.6	761.6	761.6	766.2	762.9
170°	772.2	770.2	769.6	774.2	770.2
172.5°	778.2	776.2	775.5	780.1	776.2
175°	782.8	780.8	779.5	784.1	780.1
177.5°	785.4	783.4	782.1	786.1	782.1
180°	784.1	784.1	784.1	784.1	784.1

(END OF REPORT)