

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: P334610

Luminaire Tested: **S122IW-S435U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334610
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-S435U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 435 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

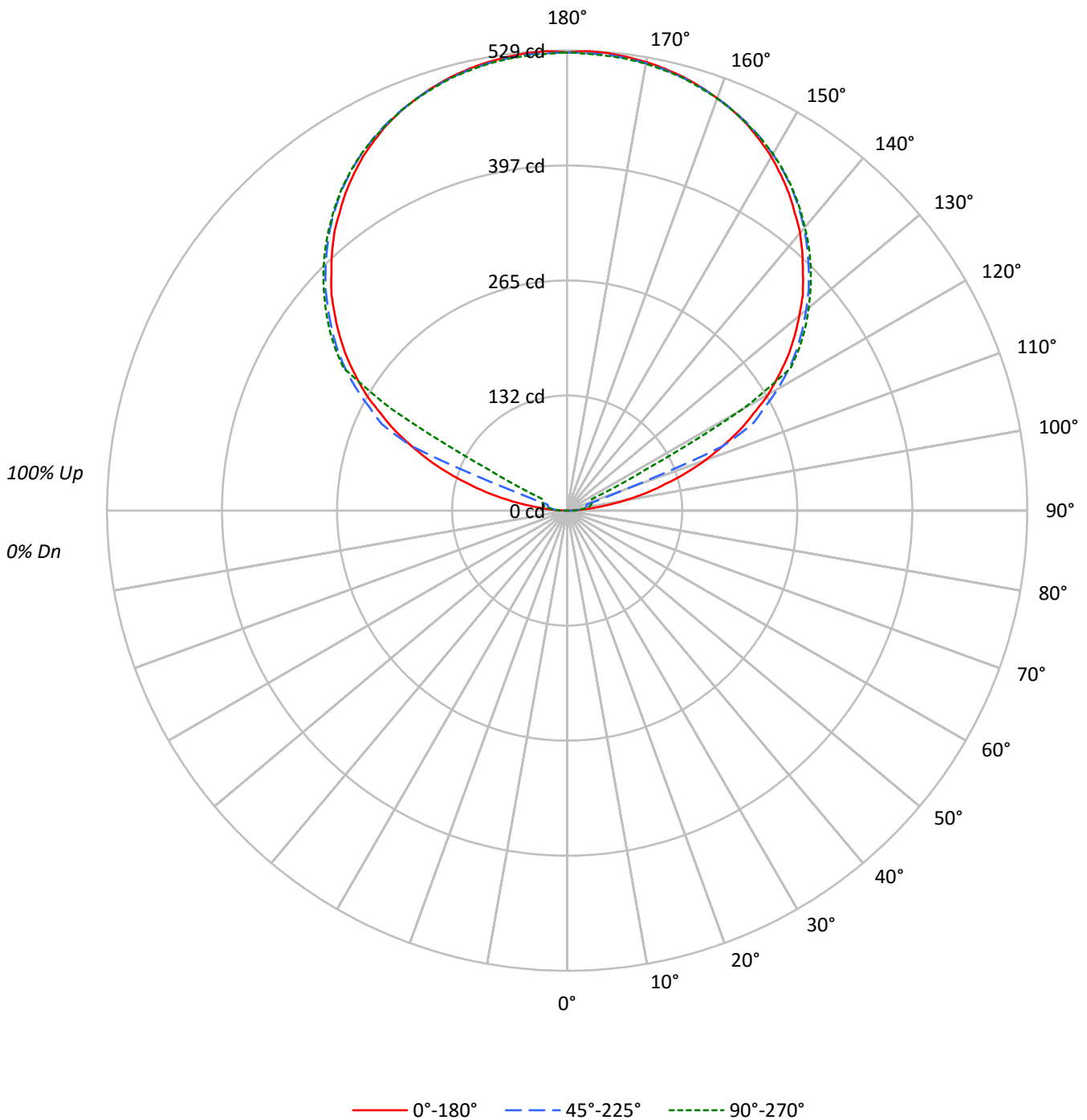
Lumens per Lamp: N/A
Luminaire Lumens: 1545.1 lumens
Efficiency: N/A
Efficacy: 177.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 8.7
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°	0.9	0.1
90°-100°	17.4	1.1
100°-110°	64.7	4.2
110°-120°	171.7	11.1
120°-130°	284.8	18.4
130°-140°	302.5	19.6
140°-150°	281.2	18.2
150°-160°	226.0	14.6
160°-170°	145.7	9.4
170°-180°	50.1	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	253.8	16.4
90°-150°	1122.3	72.6
90°-180°	1544.0	99.9
0°-180°	1545.1	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°	0	5	8	10	10	1
95°	25	12	15	17	16	29
105°	116	127	23	27	29	124
115°	219	226	235	59	31	216
125°	310	315	322	325	326	276
135°	383	390	393	397	396	296
145°	445	444	451	454	452	278
155°	490	486	491	493	490	226
165°	516	514	515	518	515	146
175°	528	525	526	529	525	50
180°	527	527	527	527	527	



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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°	0.4	4.6	7.6	9.5	10.3
92.5°	9.5	8.0	9.1	9.9	10.3
95°	24.8	12.2	14.9	16.8	16.4
97.5°	44.6	13.3	19.4	20.6	21.0
100°	67.5	15.2	21.7	24.8	25.5
102.5°	92.6	91.9	22.5	26.7	27.8
105°	115.9	127.3	23.2	27.4	29.0
107.5°	142.9	152.5	24.0	28.2	29.7
110°	168.8	176.8	66.7	28.6	30.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.2	200.1	193.6	29.3	30.5
115°	219.2	225.6	235.2	58.7	31.3
117.5°	241.6	249.3	255.7	201.2	101.4
120°	266.8	272.5	279.4	283.9	232.5
122.5°	288.1	294.2	301.9	304.1	304.5
125°	309.9	314.8	322.1	324.7	325.9
127.5°	329.7	335.0	340.7	344.5	344.9
130°	348.4	354.5	358.6	362.8	362.5
132.5°	367.4	372.4	376.6	380.0	379.6
135°	383.4	389.5	392.9	396.8	396.0
137.5°	400.2	404.8	408.6	412.4	411.2
140°	416.6	419.6	423.8	427.2	425.3
142.5°	430.3	433.0	437.9	441.0	439.1
145°	444.8	444.4	450.9	453.5	451.6
147.5°	457.4	456.2	462.7	464.6	463.1
150°	469.6	466.9	473.0	475.3	473.4
152.5°	479.8	476.8	482.5	484.8	482.1
155°	489.8	486.3	490.9	493.2	490.1
157.5°	497.8	494.7	498.1	500.8	497.8
160°	504.6	502.3	504.6	506.9	504.2
162.5°	510.7	508.4	510.3	513.0	509.6
165°	516.1	513.8	514.9	517.6	514.9
167.5°	520.2	518.0	519.1	521.8	518.3
170°	523.7	521.4	522.2	524.8	521.4
172.5°	526.0	523.7	524.4	527.1	523.7
175°	527.9	525.2	526.0	528.6	524.8
177.5°	528.6	526.0	526.3	529.0	525.6
180°	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)