

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: P334590

Luminaire Tested: **S122IW-S435U840-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334590  
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-S435U840-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 435 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

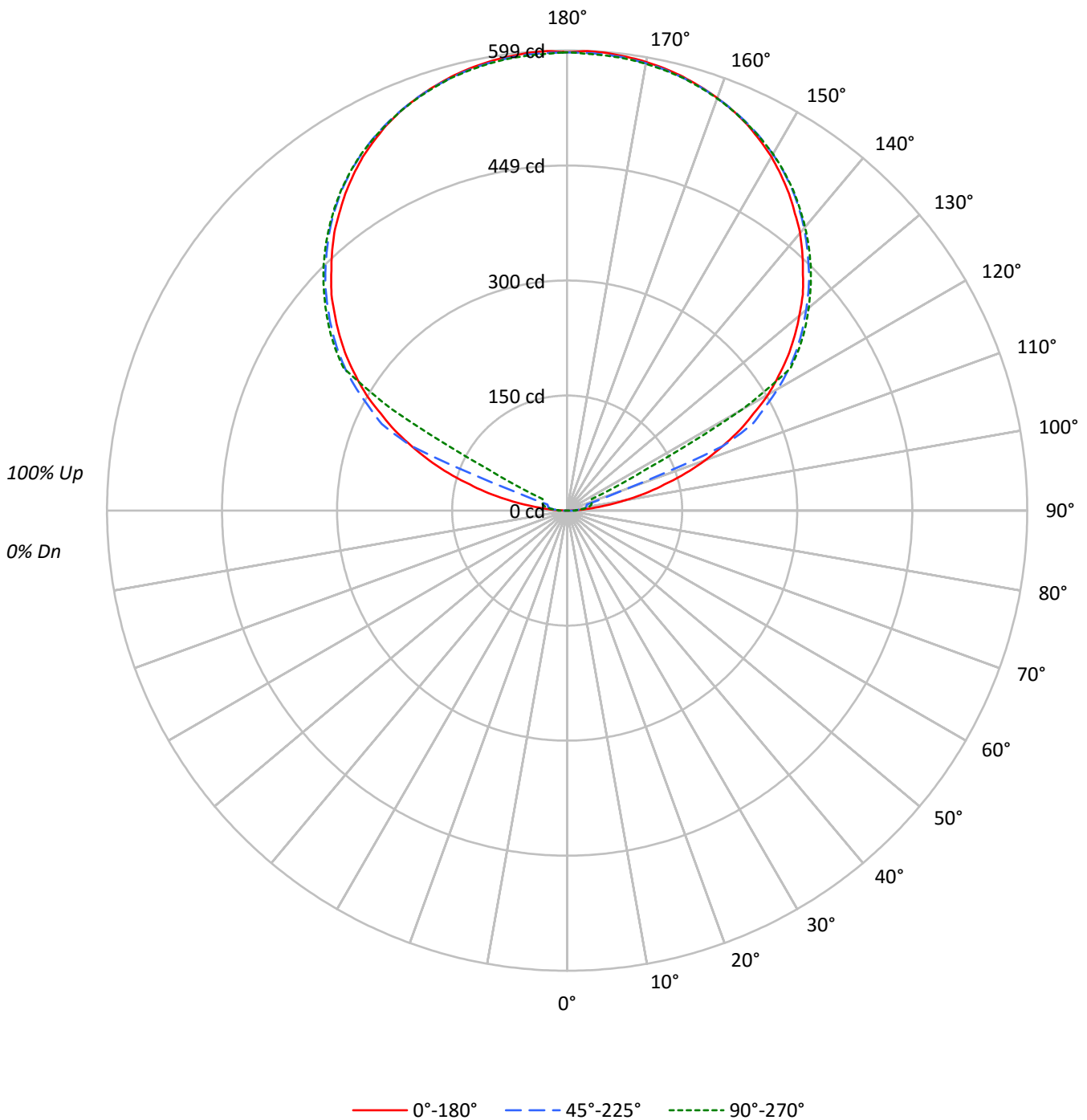
Lumens per Lamp: N/A  
Luminaire Lumens: 1749.8 lumens  
Efficiency: N/A  
Efficacy: 201.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 8.7  
Input Voltage (V): 120  
Input Current (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°	1.1	0.1
90°-100°	19.7	1.1
100°-110°	73.3	4.2
110°-120°	194.5	11.1
120°-130°	322.5	18.4
130°-140°	342.6	19.6
140°-150°	318.4	18.2
150°-160°	256.0	14.6
160°-170°	165.0	9.4
170°-180°	56.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.1
90°-120°	287.5	16.4
90°-150°	1271.0	72.6
90°-180°	1749.0	100.0
0°-180°	1749.8	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	9	11	12	2
95°	28	14	17	19	19	33
105°	131	144	26	31	33	140
115°	248	256	266	66	35	244
125°	351	356	365	368	369	313
135°	434	441	445	449	448	335
145°	504	503	511	514	512	315
155°	555	551	556	558	555	256
165°	584	582	583	586	583	165
175°	598	595	596	599	594	57
180°	596	596	596	596	596	



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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	5.2	8.6	10.8	11.7
92.5°	10.8	9.1	10.4	11.2	11.7
95°	28.1	13.8	16.8	19.0	18.6
97.5°	50.5	15.1	22.0	23.3	23.7
100°	76.4	17.3	24.6	28.1	28.9
102.5°	104.9	104.0	25.5	30.2	31.5
105°	131.2	144.2	26.3	31.1	32.8
107.5°	161.9	172.7	27.2	31.9	33.7
110°	191.2	200.3	75.5	32.4	34.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	218.8	226.6	219.3	33.2	34.5
115°	248.2	255.5	266.3	66.5	35.4
117.5°	273.7	282.3	289.6	227.9	114.8
120°	302.1	308.6	316.4	321.6	263.3
122.5°	326.3	333.2	341.9	344.4	344.9
125°	350.9	356.5	364.7	367.8	369.0
127.5°	373.4	379.4	385.9	390.2	390.6
130°	394.5	401.4	406.2	410.9	410.5
132.5°	416.1	421.7	426.5	430.3	429.9
135°	434.2	441.1	445.0	449.3	448.5
137.5°	453.2	458.4	462.7	467.0	465.7
140°	471.8	475.2	480.0	483.9	481.7
142.5°	487.3	490.3	495.9	499.4	497.2
145°	503.7	503.3	510.6	513.6	511.5
147.5°	518.0	516.7	524.0	526.2	524.4
150°	531.8	528.7	535.7	538.2	536.1
152.5°	543.4	540.0	546.4	549.0	546.0
155°	554.6	550.8	555.9	558.5	555.1
157.5°	563.7	560.3	564.1	567.2	563.7
160°	571.5	568.9	571.5	574.1	571.0
162.5°	578.4	575.8	578.0	581.0	577.1
165°	584.4	581.8	583.1	586.2	583.1
167.5°	589.2	586.6	587.9	590.9	587.0
170°	593.1	590.5	591.3	594.4	590.5
172.5°	595.7	593.1	593.9	596.9	593.1
175°	597.8	594.8	595.7	598.7	594.4
177.5°	598.7	595.7	596.1	599.1	595.2
180°	596.5	596.5	596.5	596.5	596.5

(END OF REPORT)