

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: P334580

Luminaire Tested: **S122IW-S435U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334580
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-S435U830-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 435 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

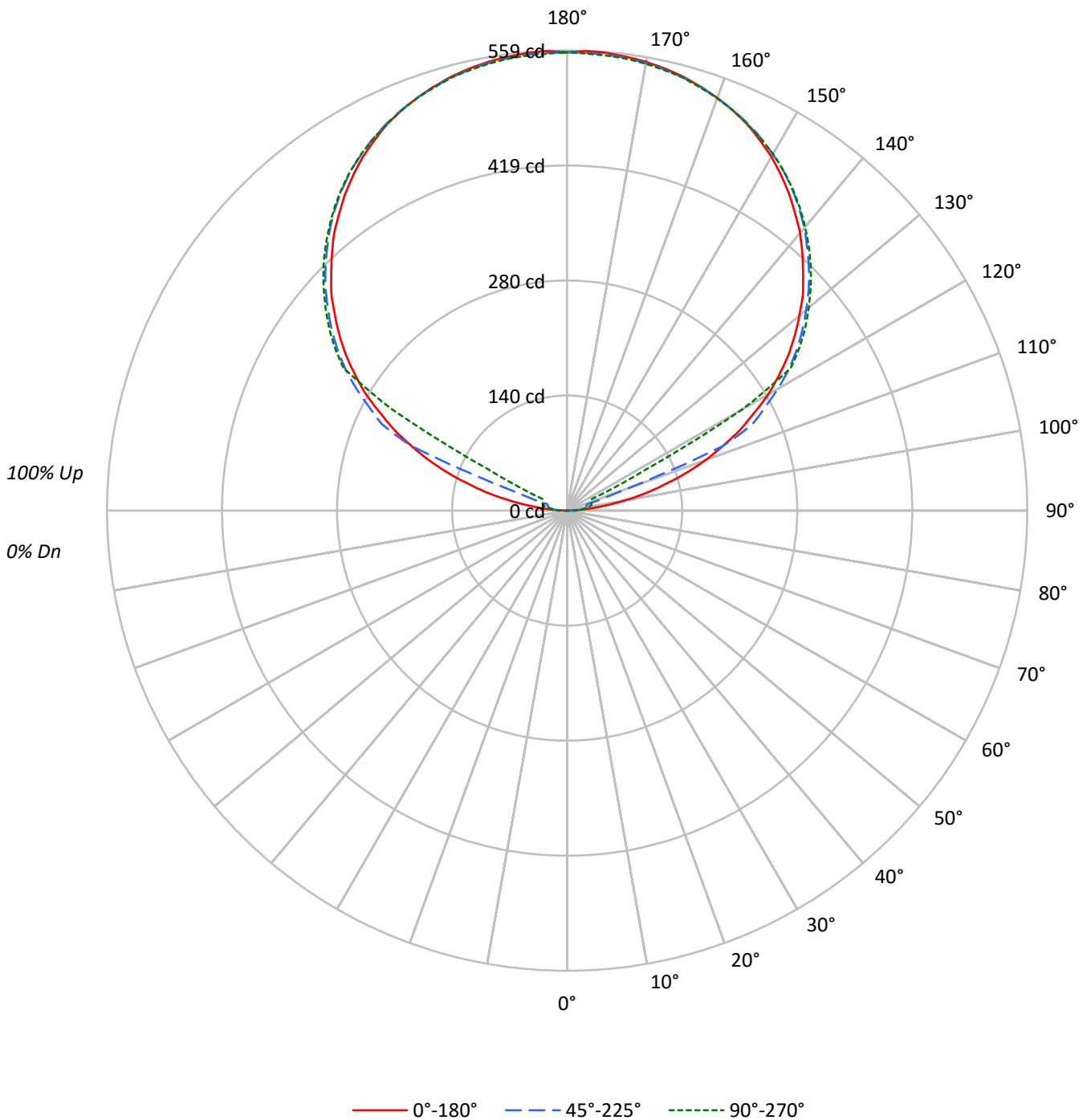
Lumens per Lamp: N/A
Luminaire Lumens: 1633.2 lumens
Efficiency: N/A
Efficacy: 187.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	1.0	0.1
90°-100°	18.4	1.1
100°-110°	68.4	4.2
110°-120°	181.5	11.1
120°-130°	301.0	18.4
130°-140°	319.8	19.6
140°-150°	297.2	18.2
150°-160°	238.9	14.6
160°-170°	154.0	9.4
170°-180°	53.0	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	268.3	16.4
90°-150°	1186.3	72.6
90°-180°	1632.0	99.9
0°-180°	1633.2	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	11	1
95°	26	13	16	18	17	31
105°	122	135	25	29	31	131
115°	232	238	249	62	33	228
125°	328	333	340	343	344	292
135°	405	412	415	419	419	313
145°	470	470	477	479	477	294
155°	518	514	519	521	518	239
165°	546	543	544	547	544	154
175°	558	555	556	559	555	53
180°	557	557	557	557	557	



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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	4.8	8.1	10.1	10.9
92.5°	10.1	8.5	9.7	10.5	10.9
95°	26.2	12.9	15.7	17.7	17.3
97.5°	47.1	14.1	20.5	21.8	22.2
100°	71.3	16.1	23.0	26.2	27.0
102.5°	97.9	97.1	23.8	28.2	29.4
105°	122.5	134.6	24.6	29.0	30.6
107.5°	151.1	161.1	25.4	29.8	31.4
110°	178.5	186.9	70.5	30.2	31.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	204.2	211.5	204.7	31.0	32.2
115°	231.6	238.5	248.6	62.0	33.0
117.5°	255.4	263.5	270.3	212.7	107.2
120°	282.0	288.0	295.3	300.1	245.7
122.5°	304.6	311.0	319.1	321.5	321.9
125°	327.5	332.8	340.4	343.2	344.4
127.5°	348.5	354.1	360.2	364.2	364.6
130°	368.2	374.7	379.1	383.5	383.1
132.5°	388.4	393.6	398.0	401.6	401.2
135°	405.3	411.7	415.3	419.4	418.6
137.5°	423.0	427.8	431.9	435.9	434.7
140°	440.3	443.5	448.0	451.6	449.6
142.5°	454.8	457.6	462.9	466.1	464.1
145°	470.1	469.7	476.6	479.4	477.4
147.5°	483.4	482.2	489.1	491.1	489.5
150°	496.3	493.5	499.9	502.4	500.3
152.5°	507.2	504.0	510.0	512.4	509.6
155°	517.7	514.0	518.9	521.3	518.1
157.5°	526.1	522.9	526.5	529.4	526.1
160°	533.4	531.0	533.4	535.8	533.0
162.5°	539.8	537.4	539.4	542.2	538.6
165°	545.5	543.1	544.3	547.1	544.3
167.5°	549.9	547.5	548.7	551.5	547.9
170°	553.5	551.1	551.9	554.7	551.1
172.5°	555.9	553.5	554.3	557.2	553.5
175°	558.0	555.1	555.9	558.8	554.7
177.5°	558.8	555.9	556.3	559.2	555.5
180°	556.7	556.7	556.7	556.7	556.7

(END OF REPORT)