

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: P334595

Luminaire Tested: **S122IW-S435U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334595
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-S435U927-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 435 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

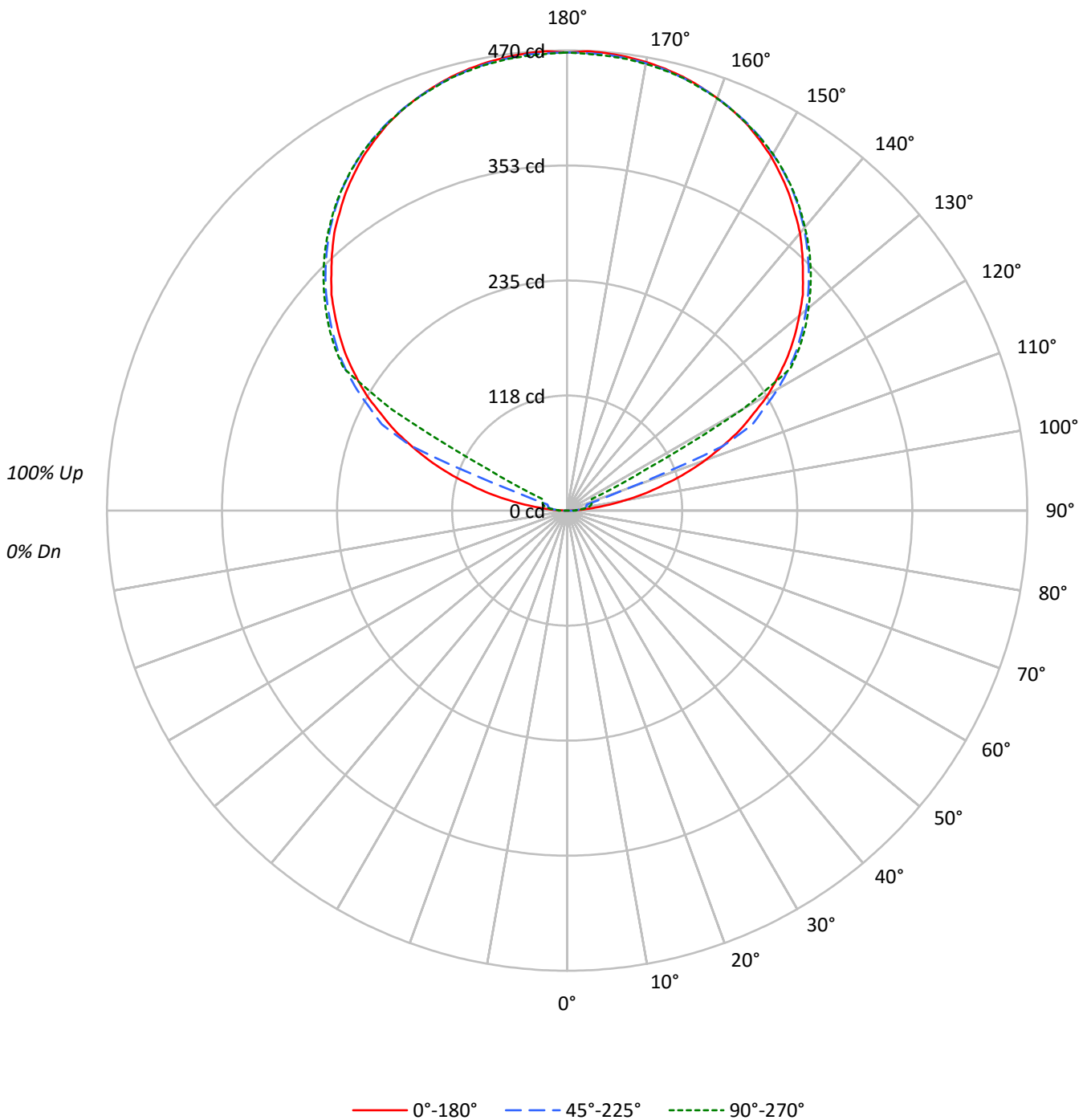
Lumens per Lamp: N/A
Luminaire Lumens: 1372.7 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P334595
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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°	0.8	0.1
90°-100°	15.4	1.1
100°-110°	57.5	4.2
110°-120°	152.6	11.1
120°-130°	253.0	18.4
130°-140°	268.8	19.6
140°-150°	249.8	18.2
150°-160°	200.8	14.6
160°-170°	129.4	9.4
170°-180°	44.5	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.8	0.1
90°-120°	225.5	16.4
90°-150°	997.1	72.6
90°-180°	1372.0	100.0
0°-180°	1372.7	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	4	7	8	9	1
95°	22	11	13	15	15	26
105°	103	113	21	24	26	110
115°	195	200	209	52	28	192
125°	275	280	286	288	290	246
135°	341	346	349	352	352	263
145°	395	395	401	403	401	247
155°	435	432	436	438	435	200
165°	458	456	457	460	457	130
175°	469	467	467	470	466	45
180°	468	468	468	468	468	



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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°	0.3	4.1	6.8	8.5	9.1
92.5°	8.5	7.1	8.1	8.8	9.1
95°	22.0	10.8	13.2	14.9	14.6
97.5°	39.6	11.9	17.3	18.3	18.6
100°	59.9	13.5	19.3	22.0	22.7
102.5°	82.3	81.6	20.0	23.7	24.7
105°	102.9	113.1	20.7	24.4	25.7
107.5°	127.0	135.4	21.3	25.1	26.4
110°	150.0	157.1	59.3	25.4	26.7



TEST NUMBER: P334595

CATALOG NUMBER: S122IW-S435U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	177.8	172.0	26.1	27.1
115°	194.7	200.4	208.9	52.1	27.8
117.5°	214.7	221.4	227.2	178.8	90.1
120°	237.0	242.1	248.2	252.3	206.5
122.5°	256.0	261.4	268.2	270.2	270.5
125°	275.3	279.7	286.1	288.5	289.5
127.5°	292.9	297.6	302.7	306.1	306.4
130°	309.5	314.9	318.6	322.3	322.0
132.5°	326.4	330.8	334.5	337.6	337.2
135°	340.6	346.0	349.1	352.5	351.8
137.5°	355.5	359.6	363.0	366.4	365.3
140°	370.1	372.8	376.5	379.6	377.9
142.5°	382.3	384.6	389.0	391.8	390.1
145°	395.1	394.8	400.6	402.9	401.2
147.5°	406.3	405.3	411.1	412.7	411.4
150°	417.1	414.8	420.2	422.2	420.5
152.5°	426.3	423.6	428.7	430.7	428.3
155°	435.1	432.0	436.1	438.1	435.4
157.5°	442.2	439.5	442.5	444.9	442.2
160°	448.3	446.3	448.3	450.3	448.0
162.5°	453.7	451.7	453.4	455.7	452.7
165°	458.5	456.4	457.4	459.8	457.4
167.5°	462.2	460.1	461.2	463.5	460.5
170°	465.2	463.2	463.9	466.2	463.2
172.5°	467.3	465.2	465.9	468.3	465.2
175°	468.9	466.6	467.3	469.6	466.2
177.5°	469.6	467.3	467.6	470.0	466.9
180°	467.9	467.9	467.9	467.9	467.9

(END OF REPORT)