

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: P334585

Luminaire Tested: **S122IW-S435U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334585
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-S435U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 435 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

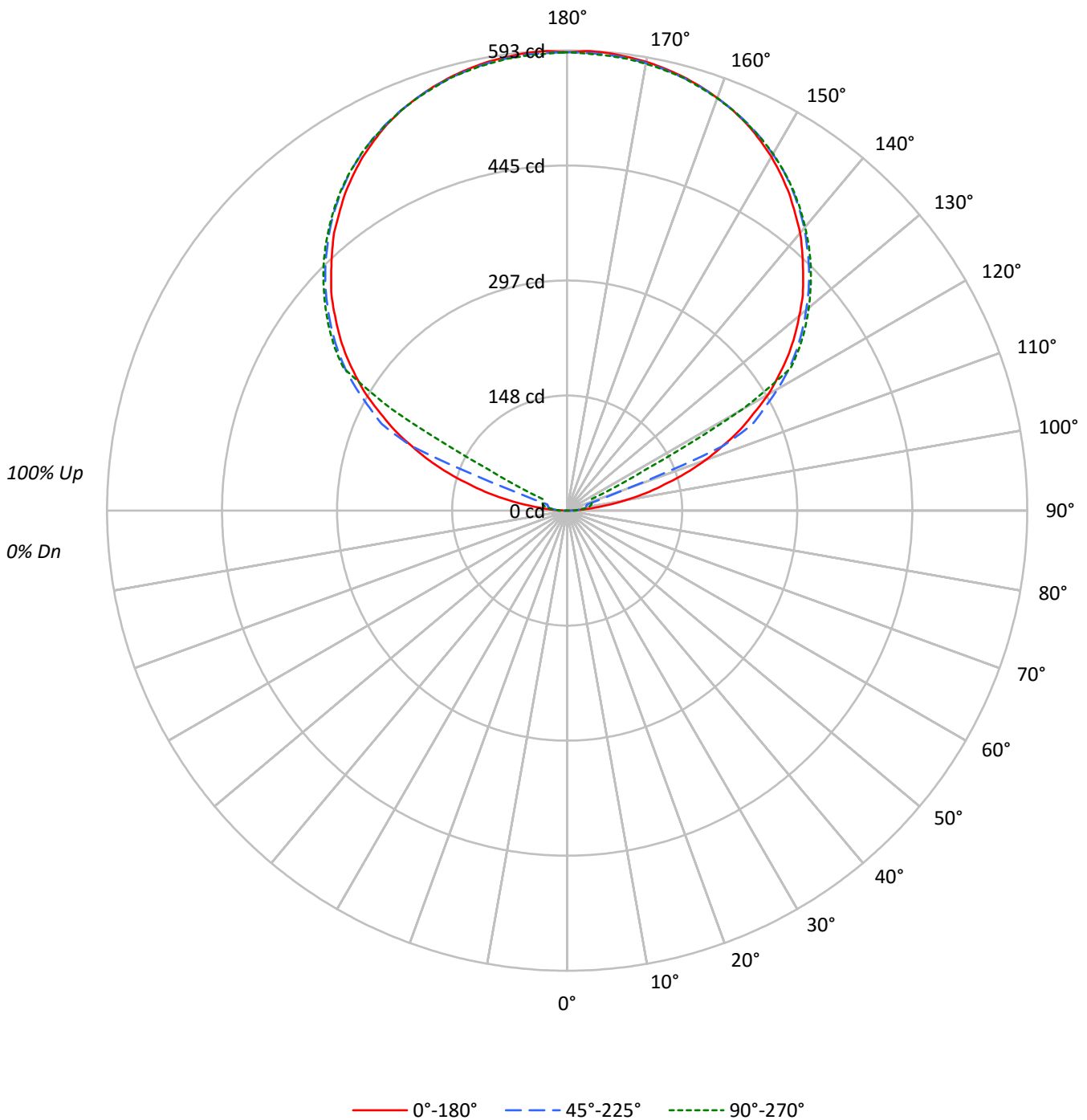
Lumens per Lamp: N/A
Luminaire Lumens: 1732.7 lumens
Efficiency: N/A
Efficacy: 199.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P334585
CATALOG NUMBER: S122IW-S435U835-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334585

CATALOG NUMBER: S122IW-S435U835-4F0-1E-UDD

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



TEST NUMBER: P334585

CATALOG NUMBER: S122IW-S435U835-4F0-1E-UDD

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°	19.5	1.1
100°-110°	72.6	4.2
110°-120°	192.6	11.1
120°-130°	319.4	18.4
130°-140°	339.3	19.6
140°-150°	315.3	18.2
150°-160°	253.5	14.6
160°-170°	163.3	9.4
170°-180°	56.2	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°	284.7	16.4
90°-150°	1258.6	72.6
90°-180°	1732.0	100.0
0°-180°	1732.7	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	5	8	11	12	2
95°	28	14	17	19	18	33
105°	130	143	26	31	32	139
115°	246	253	264	66	35	242
125°	348	353	361	364	365	310
135°	430	437	441	445	444	332
145°	499	498	506	509	506	312
155°	549	545	550	553	550	253
165°	579	576	577	580	577	163
175°	592	589	590	593	589	56
180°	591	591	591	591	591	



TEST NUMBER: P334585

CATALOG NUMBER: S122IW-S435U835-4F0-1E-UDD

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	5.1	8.5	10.7	11.5
92.5°	10.7	9.0	10.3	11.1	11.5
95°	27.8	13.7	16.7	18.8	18.4
97.5°	50.0	15.0	21.8	23.1	23.5
100°	75.7	17.1	24.4	27.8	28.6
102.5°	103.9	103.0	25.2	29.9	31.2
105°	129.9	142.8	26.1	30.8	32.5
107.5°	160.3	171.0	26.9	31.6	33.3
110°	189.3	198.3	74.8	32.1	33.8



TEST NUMBER: P334585

CATALOG NUMBER: S122IW-S435U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.7	224.4	217.1	32.9	34.2
115°	245.8	253.0	263.7	65.8	35.0
117.5°	271.0	279.5	286.8	225.7	113.7
120°	299.2	305.6	313.3	318.4	260.7
122.5°	323.1	330.0	338.5	341.1	341.5
125°	347.5	353.0	361.2	364.2	365.4
127.5°	369.7	375.7	382.1	386.4	386.8
130°	390.7	397.5	402.2	406.9	406.5
132.5°	412.0	417.6	422.3	426.1	425.7
135°	430.0	436.8	440.7	444.9	444.1
137.5°	448.8	453.9	458.2	462.5	461.2
140°	467.2	470.6	475.3	479.1	477.0
142.5°	482.6	485.5	491.1	494.5	492.4
145°	498.8	498.4	505.6	508.6	506.5
147.5°	512.9	511.6	518.9	521.0	519.3
150°	526.6	523.6	530.4	533.0	530.9
152.5°	538.1	534.7	541.1	543.7	540.7
155°	549.2	545.4	550.5	553.1	549.7
157.5°	558.2	554.8	558.6	561.6	558.2
160°	565.9	563.3	565.9	568.5	565.5
162.5°	572.7	570.2	572.3	575.3	571.5
165°	578.7	576.2	577.4	580.4	577.4
167.5°	583.4	580.9	582.1	585.1	581.3
170°	587.3	584.7	585.6	588.6	584.7
172.5°	589.8	587.3	588.1	591.1	587.3
175°	592.0	589.0	589.8	592.8	588.6
177.5°	592.8	589.8	590.3	593.3	589.4
180°	590.7	590.7	590.7	590.7	590.7

(END OF REPORT)