

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: P334760

Luminaire Tested: **S123IW-S460U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S460U835-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 460 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

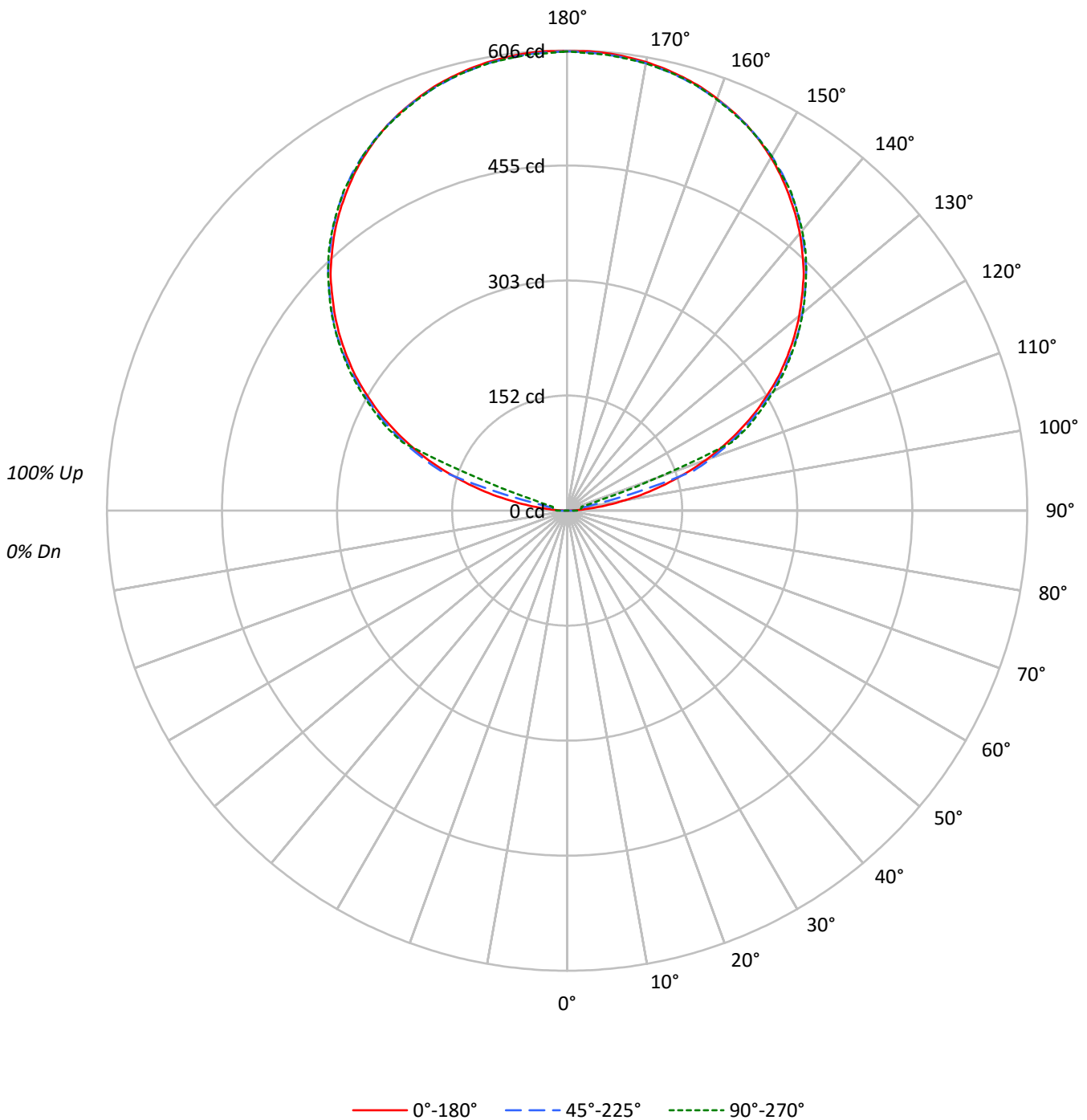
Lumens per Lamp: N/A
Luminaire Lumens: 1844.8 lumens
Efficiency: N/A
Efficacy: 212.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	1.2	0.1
90°-100°	21.3	1.2
100°-110°	103.1	5.6
110°-120°	252.7	13.7
120°-130°	320.7	17.4
130°-140°	342.6	18.6
140°-150°	320.4	17.4
150°-160°	258.4	14.0
160°-170°	166.8	9.0
170°-180°	57.5	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.1
90°-120°	377.1	20.4
90°-150°	1360.9	73.8
90°-180°	1844.0	100.0
0°-180°	1844.8	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	11	13	14	2
95°	27	9	14	17	17	33
105°	134	139	98	19	20	142
115°	251	254	258	262	264	248
125°	354	358	359	360	361	316
135°	441	443	445	447	445	339
145°	509	512	513	514	514	318
155°	560	559	560	562	559	258
165°	591	590	589	593	590	167
175°	605	602	603	606	602	58
180°	605	605	605	605	605	



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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	4.9	10.8	12.6	13.5
92.5°	10.3	7.6	11.7	14.8	15.3
95°	27.4	9.0	13.9	17.1	17.1
97.5°	49.9	37.3	14.4	18.0	18.4
100°	75.9	84.9	14.8	18.4	18.9
102.5°	105.6	111.4	33.2	18.4	19.3
105°	133.9	138.8	98.4	18.9	19.8
107.5°	164.0	168.0	174.8	105.6	46.7
110°	194.1	197.7	202.6	187.8	123.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.8	226.0	230.9	235.0	234.1
115°	251.1	253.8	257.9	262.4	264.2
117.5°	279.0	282.1	284.4	288.0	288.4
120°	304.6	308.7	310.0	313.6	313.6
122.5°	330.7	333.8	335.6	337.9	338.3
125°	354.0	357.6	359.4	360.3	361.2
127.5°	377.4	381.0	383.2	384.6	383.7
130°	399.0	402.6	404.3	406.1	405.2
132.5°	419.6	423.2	424.6	426.4	425.0
135°	440.7	443.4	445.2	446.6	445.2
137.5°	458.7	462.3	463.2	465.5	464.6
140°	476.7	479.4	480.7	482.5	481.6
142.5°	493.3	496.0	497.4	498.7	497.4
145°	508.6	511.7	512.6	513.5	513.5
147.5°	523.4	525.7	526.6	527.5	525.2
150°	536.9	538.2	539.1	540.0	538.7
152.5°	549.0	549.5	549.9	551.7	549.5
155°	560.2	559.4	559.8	562.0	559.4
157.5°	569.2	569.2	568.8	571.5	567.9
160°	577.3	576.9	576.4	579.1	576.0
162.5°	585.0	583.6	583.2	586.3	583.6
165°	590.8	589.5	589.0	592.6	589.5
167.5°	595.7	593.9	593.9	597.5	593.9
170°	599.8	598.0	598.0	601.6	598.0
172.5°	602.5	600.2	600.7	604.3	600.2
175°	604.7	602.5	602.9	606.1	602.5
177.5°	605.6	603.4	603.8	607.4	602.9
180°	604.7	604.7	604.7	604.7	604.7

(END OF REPORT)