

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: P335110

Luminaire Tested: **S125IW-S470U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S470U835-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 470 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

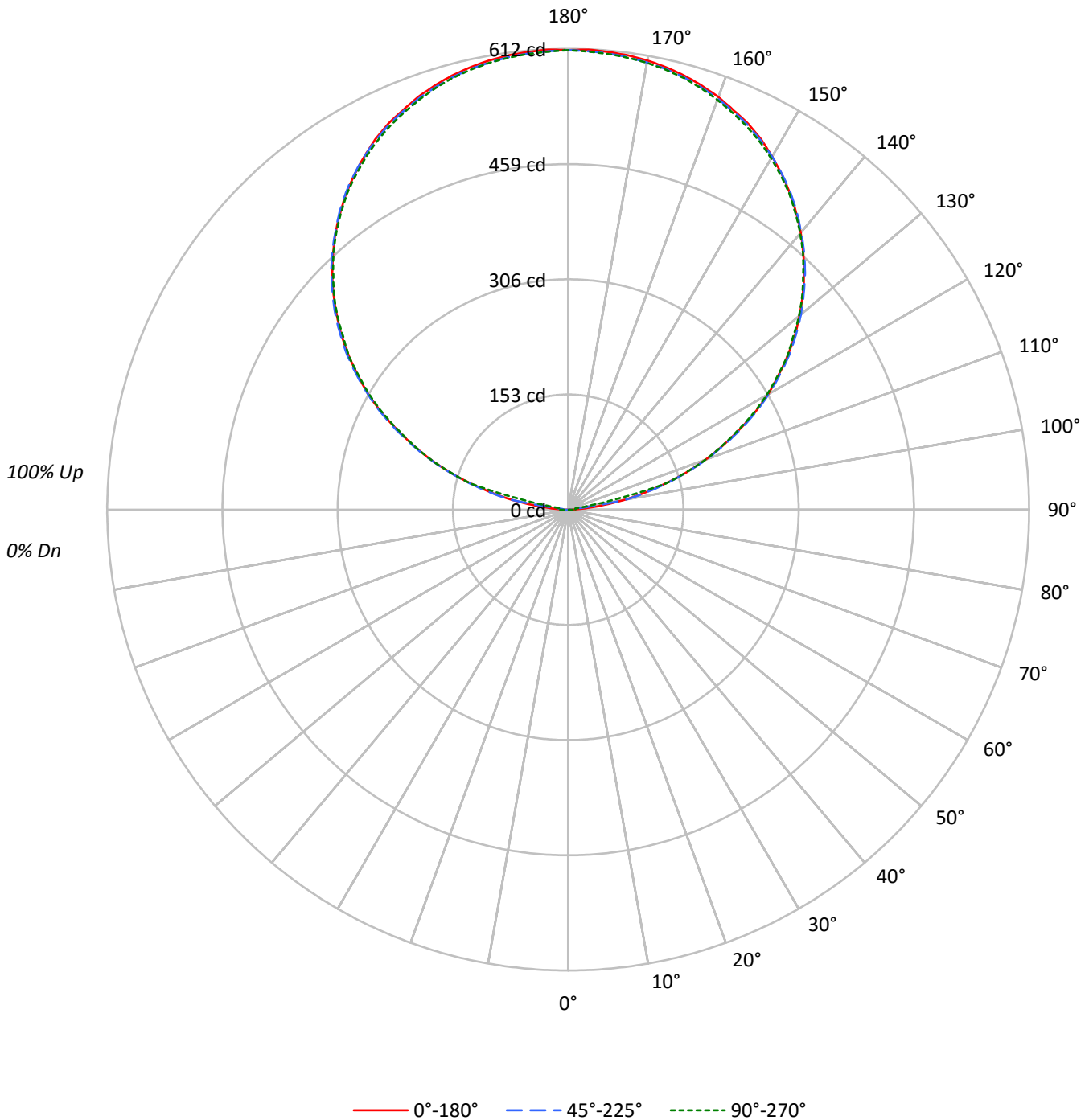
Lumens per Lamp: N/A
Luminaire Lumens: 1875.5 lumens
Efficiency: N/A
Efficacy: 215.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	0.9	0.0
90°-100°	20.7	1.1
100°-110°	137.7	7.3
110°-120°	248.0	13.2
120°-130°	318.4	17.0
130°-140°	342.4	18.3
140°-150°	321.4	17.1
150°-160°	259.9	13.9
160°-170°	168.1	9.0
170°-180°	58.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.0
90°-120°	406.5	21.7
90°-150°	1388.6	74.0
90°-180°	1875.0	100.0
0°-180°	1875.5	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	10	11	1
95°	26	24	7	10	10	32
105°	133	135	135	135	134	141
115°	250	252	252	251	248	248
125°	355	358	358	356	355	317
135°	443	446	445	444	441	341
145°	514	514	514	515	512	321
155°	566	563	564	565	561	261
165°	597	594	594	597	594	169
175°	610	608	608	612	608	58
180°	610	610	610	610	610	



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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°	0.5	4.1	7.2	9.5	10.9
92.5°	8.6	4.5	7.2	9.5	10.0
95°	25.8	24.4	7.2	9.5	9.5
97.5°	48.4	51.1	8.1	9.0	9.5
100°	75.5	76.9	78.7	11.3	9.5
102.5°	103.1	105.0	105.9	106.8	68.8
105°	133.0	134.8	134.8	134.8	134.4
107.5°	163.8	163.8	164.7	165.1	163.3
110°	193.6	193.6	194.5	193.2	193.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.7	223.0	223.5	221.7	220.8
115°	249.7	252.0	252.4	250.6	247.9
117.5°	279.1	279.1	280.9	278.2	277.3
120°	306.3	305.8	307.2	306.3	304.0
122.5°	330.2	332.5	333.0	332.1	329.3
125°	355.1	358.3	358.3	356.5	355.1
127.5°	379.1	381.4	380.9	380.0	376.4
130°	400.8	403.1	403.5	402.2	399.9
132.5°	422.5	425.3	423.9	423.9	421.6
135°	442.9	445.6	444.7	443.8	441.1
137.5°	461.9	464.6	463.7	463.7	461.4
140°	480.4	481.3	480.9	481.8	479.1
142.5°	497.2	497.6	498.5	498.5	495.8
145°	513.5	514.4	514.4	514.8	512.1
147.5°	527.9	527.9	528.4	528.8	525.7
150°	541.5	540.6	541.5	542.4	538.8
152.5°	554.6	552.4	553.3	554.2	551.0
155°	565.5	562.8	563.7	565.0	561.4
157.5°	574.1	572.7	572.7	574.1	570.5
160°	583.1	580.4	580.9	582.7	579.1
162.5°	590.4	587.7	588.1	590.8	586.8
165°	596.7	594.0	594.4	597.2	593.5
167.5°	601.7	599.0	599.4	602.6	598.5
170°	605.8	602.6	603.0	606.7	602.6
172.5°	608.5	605.3	606.2	609.4	605.3
175°	610.3	607.6	608.0	611.6	607.6
177.5°	611.6	608.9	609.4	612.5	608.9
180°	610.3	610.3	610.3	610.3	610.3

(END OF REPORT)