

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: P335130

Luminaire Tested: **S125IW-S470U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335130
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-S470U935-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 470 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

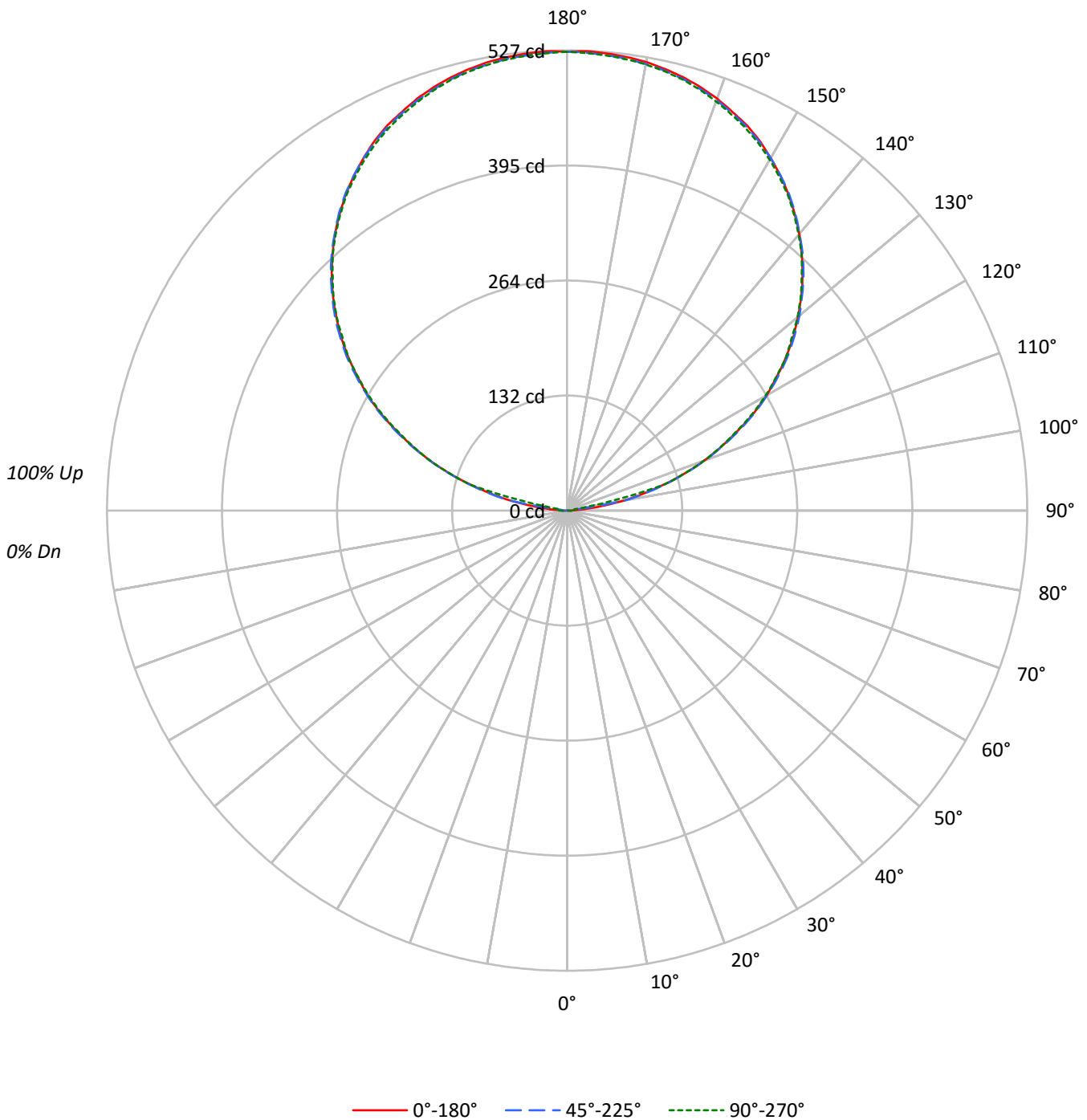
Lumens per Lamp: N/A
Luminaire Lumens: 1614.9 lumens
Efficiency: N/A
Efficacy: 185.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (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°	0.8	0.0
90°-100°	17.8	1.1
100°-110°	118.6	7.3
110°-120°	213.6	13.2
120°-130°	274.1	17.0
130°-140°	294.8	18.3
140°-150°	276.7	17.1
150°-160°	223.8	13.9
160°-170°	144.7	9.0
170°-180°	49.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.8	0.0
90°-120°	350.0	21.7
90°-150°	1195.6	74.0
90°-180°	1614.0	99.9
0°-180°	1614.9	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	6	8	9	1
95°	22	21	6	8	8	27
105°	114	116	116	116	116	121
115°	215	217	217	216	214	213
125°	306	308	308	307	306	273
135°	381	384	383	382	380	294
145°	442	443	443	443	441	277
155°	487	485	485	486	483	224
165°	514	511	512	514	511	145
175°	526	523	524	527	523	50
180°	526	526	526	526	526	



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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	3.5	6.2	8.2	9.3
92.5°	7.4	3.9	6.2	8.2	8.6
95°	22.2	21.0	6.2	8.2	8.2
97.5°	41.7	44.0	7.0	7.8	8.2
100°	65.0	66.2	67.8	9.7	8.2
102.5°	88.8	90.4	91.1	91.9	59.2
105°	114.5	116.1	116.1	116.1	115.7
107.5°	141.0	141.0	141.8	142.2	140.6
110°	166.7	166.7	167.5	166.3	166.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	190.9	192.0	192.4	190.9	190.1
115°	215.0	217.0	217.3	215.8	213.5
117.5°	240.3	240.3	241.9	239.5	238.8
120°	263.7	263.3	264.5	263.7	261.8
122.5°	284.3	286.3	286.7	285.9	283.6
125°	305.8	308.5	308.5	306.9	305.8
127.5°	326.4	328.4	328.0	327.2	324.1
130°	345.1	347.1	347.4	346.3	344.3
132.5°	363.8	366.1	365.0	365.0	363.0
135°	381.3	383.7	382.9	382.1	379.8
137.5°	397.7	400.0	399.2	399.2	397.3
140°	413.7	414.4	414.1	414.8	412.5
142.5°	428.1	428.5	429.2	429.2	426.9
145°	442.1	442.9	442.9	443.3	440.9
147.5°	454.6	454.6	454.9	455.3	452.6
150°	466.2	465.5	466.2	467.0	463.9
152.5°	477.5	475.6	476.4	477.2	474.4
155°	486.9	484.6	485.3	486.5	483.4
157.5°	494.3	493.1	493.1	494.3	491.2
160°	502.1	499.7	500.1	501.7	498.6
162.5°	508.3	506.0	506.4	508.7	505.2
165°	513.8	511.4	511.8	514.2	511.0
167.5°	518.0	515.7	516.1	518.8	515.3
170°	521.6	518.8	519.2	522.3	518.8
172.5°	523.9	521.2	521.9	524.7	521.2
175°	525.5	523.1	523.5	526.6	523.1
177.5°	526.6	524.3	524.7	527.4	524.3
180°	525.5	525.5	525.5	525.5	525.5

(END OF REPORT)