

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: P335071

Luminaire Tested: **S125IP-S590U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335071
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: S125IP-S590U830-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

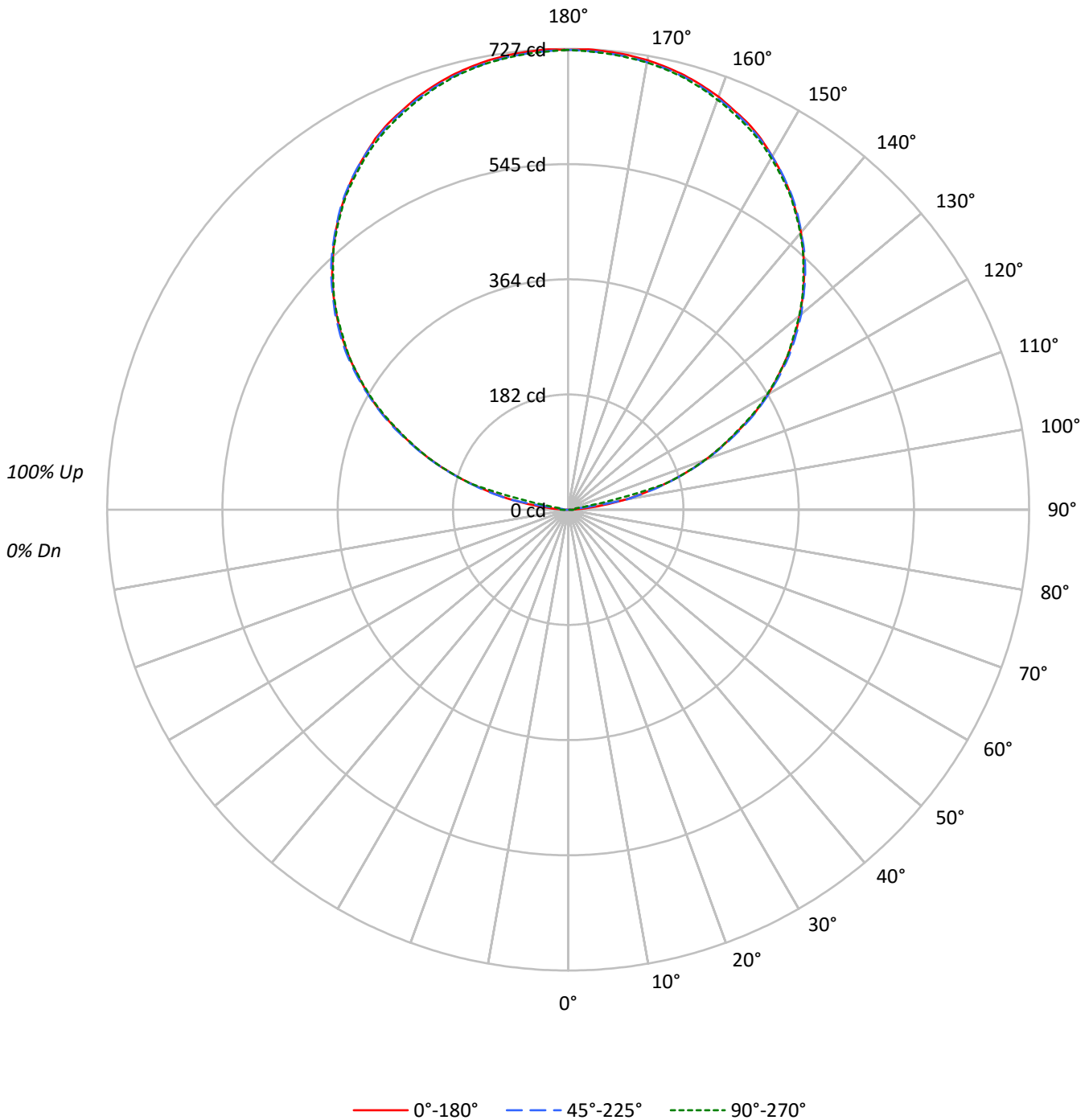
Lumens per Lamp: N/A
Luminaire Lumens: 2229.5 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 18.8
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°	1.1	0.0
90°-100°	24.6	1.1
100°-110°	163.7	7.3
110°-120°	294.8	13.2
120°-130°	378.4	17.0
130°-140°	407.0	18.3
140°-150°	382.0	17.1
150°-160°	309.0	13.9
160°-170°	199.8	9.0
170°-180°	68.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.0
90°-120°	483.2	21.7
90°-150°	1650.6	74.0
90°-180°	2228.0	99.9
0°-180°	2229.5	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	5	9	11	13	2
95°	31	29	9	11	11	38
105°	158	160	160	160	160	168
115°	297	300	300	298	295	294
125°	422	426	426	424	422	377
135°	526	530	529	528	524	406
145°	610	611	611	612	609	382
155°	672	669	670	672	667	310
165°	709	706	707	710	706	200
175°	725	722	723	727	722	69
180°	725	725	725	725	725	



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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	4.8	8.6	11.3	12.9
92.5°	10.2	5.4	8.6	11.3	11.8
95°	30.7	29.0	8.6	11.3	11.3
97.5°	57.5	60.8	9.7	10.8	11.3
100°	89.8	91.4	93.6	13.4	11.3
102.5°	122.6	124.8	125.8	126.9	81.7
105°	158.1	160.3	160.3	160.3	159.7
107.5°	194.7	194.7	195.7	196.3	194.1
110°	230.2	230.2	231.2	229.6	230.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.5	265.1	265.7	263.5	262.4
115°	296.8	299.5	300.1	297.9	294.7
117.5°	331.8	331.8	333.9	330.7	329.6
120°	364.1	363.5	365.1	364.1	361.4
122.5°	392.6	395.3	395.8	394.7	391.5
125°	422.1	425.9	425.9	423.8	422.1
127.5°	450.6	453.3	452.8	451.7	447.4
130°	476.5	479.1	479.7	478.1	475.4
132.5°	502.3	505.5	503.9	503.9	501.2
135°	526.5	529.7	528.6	527.5	524.3
137.5°	549.0	552.3	551.2	551.2	548.5
140°	571.1	572.2	571.6	572.7	569.5
142.5°	591.0	591.5	592.6	592.6	589.4
145°	610.4	611.4	611.4	612.0	608.7
147.5°	627.6	627.6	628.1	628.6	624.9
150°	643.7	642.6	643.7	644.8	640.5
152.5°	659.3	656.6	657.7	658.8	655.0
155°	672.2	669.0	670.0	671.7	667.4
157.5°	682.4	680.8	680.8	682.4	678.1
160°	693.2	689.9	690.5	692.6	688.3
162.5°	701.8	698.5	699.1	702.3	697.5
165°	709.3	706.1	706.6	709.8	705.5
167.5°	715.2	712.0	712.5	716.3	711.5
170°	720.1	716.3	716.8	721.1	716.3
172.5°	723.3	719.5	720.6	724.4	719.5
175°	725.4	722.2	722.7	727.0	722.2
177.5°	727.0	723.8	724.4	728.1	723.8
180°	725.4	725.4	725.4	725.4	725.4

(END OF REPORT)