

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: P335016

Luminaire Tested: **S125IP-S590U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IP-S590U927-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 590 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

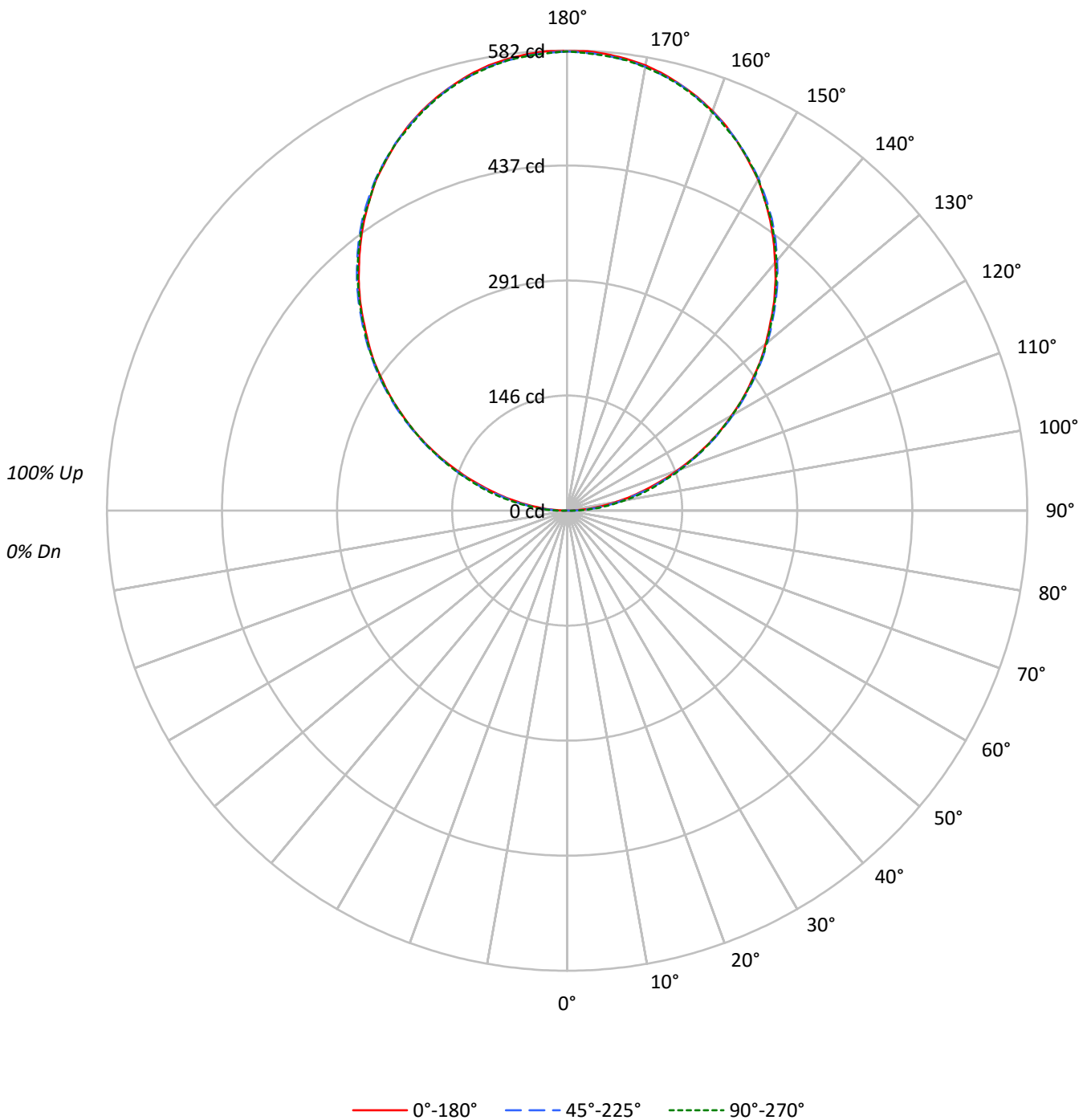
Lumens per Lamp: N/A  
Luminaire Lumens: 1621.6 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

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



TEST NUMBER: P335016  
CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P335016

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD-1

**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: P335016

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD-1

**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	0.1
90°-100°	38.6	2.4
100°-110°	114.7	7.1
110°-120°	194.6	12.0
120°-130°	256.1	15.8
130°-140°	287.0	17.7
140°-150°	281.3	17.3
150°-160°	236.3	14.6
160°-170°	157.1	9.7
170°-180°	55.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	347.9	21.5
90°-150°	1172.4	72.3
90°-180°	1621.0	100.0
0°-180°	1621.6	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	2
95°	29	30	35	38	39	31
105°	103	105	108	111	112	110
115°	195	197	198	197	197	193
125°	284	287	287	286	286	255
135°	370	372	373	373	371	285
145°	448	450	451	451	450	280
155°	512	512	513	515	512	236
165°	557	556	557	559	556	157
175°	579	578	578	580	577	55
180°	581	581	581	581	581	



TEST NUMBER: P335016

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD-1

**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	10.8
92.5°	13.6	15.8	19.9	23.0	24.0
95°	29.4	30.3	34.8	38.0	38.9
97.5°	45.2	45.6	52.0	54.7	55.1
100°	63.3	63.3	69.1	73.2	74.1
102.5°	82.7	85.0	87.2	91.7	93.1
105°	103.0	105.3	108.0	110.7	112.1
107.5°	125.2	127.4	129.7	131.1	131.1
110°	148.2	150.5	151.8	153.2	152.7



TEST NUMBER: P335016

CATALOG NUMBER: S125IP-S590U927-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	172.6	174.4	174.9	174.0
115°	194.8	196.6	197.5	197.0	196.6
117.5°	218.3	218.7	219.6	220.1	218.3
120°	240.0	242.2	242.7	242.7	240.9
122.5°	263.5	263.9	265.3	264.8	263.5
125°	284.3	287.0	287.4	286.5	286.1
127.5°	307.3	308.7	309.1	308.7	307.8
130°	327.6	329.9	330.8	330.4	329.4
132.5°	348.0	352.0	351.6	351.1	349.8
135°	369.7	372.4	372.8	372.8	371.0
137.5°	390.0	392.7	393.6	394.1	391.8
140°	409.4	411.7	413.1	414.0	411.7
142.5°	428.9	430.7	432.5	432.9	430.7
145°	447.9	449.7	451.0	451.0	449.7
147.5°	465.5	466.8	467.7	469.1	465.5
150°	483.1	482.6	484.5	484.5	483.6
152.5°	497.6	498.5	498.9	500.3	498.5
155°	512.5	512.5	512.9	514.7	512.5
157.5°	526.0	525.1	525.6	527.4	524.2
160°	537.8	536.4	536.9	538.7	536.4
162.5°	548.2	547.3	547.3	549.5	546.8
165°	557.2	556.3	556.8	558.6	555.9
167.5°	565.3	563.5	563.5	566.3	563.5
170°	571.7	569.9	569.9	572.6	569.4
172.5°	576.2	574.4	574.4	577.1	574.4
175°	579.4	577.6	577.6	580.3	577.1
177.5°	581.6	579.8	579.4	582.1	578.9
180°	580.7	580.7	580.7	580.7	580.7

(END OF REPORT)