

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: P334676

Luminaire Tested: **S123IP-S585U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S585U935-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 585 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

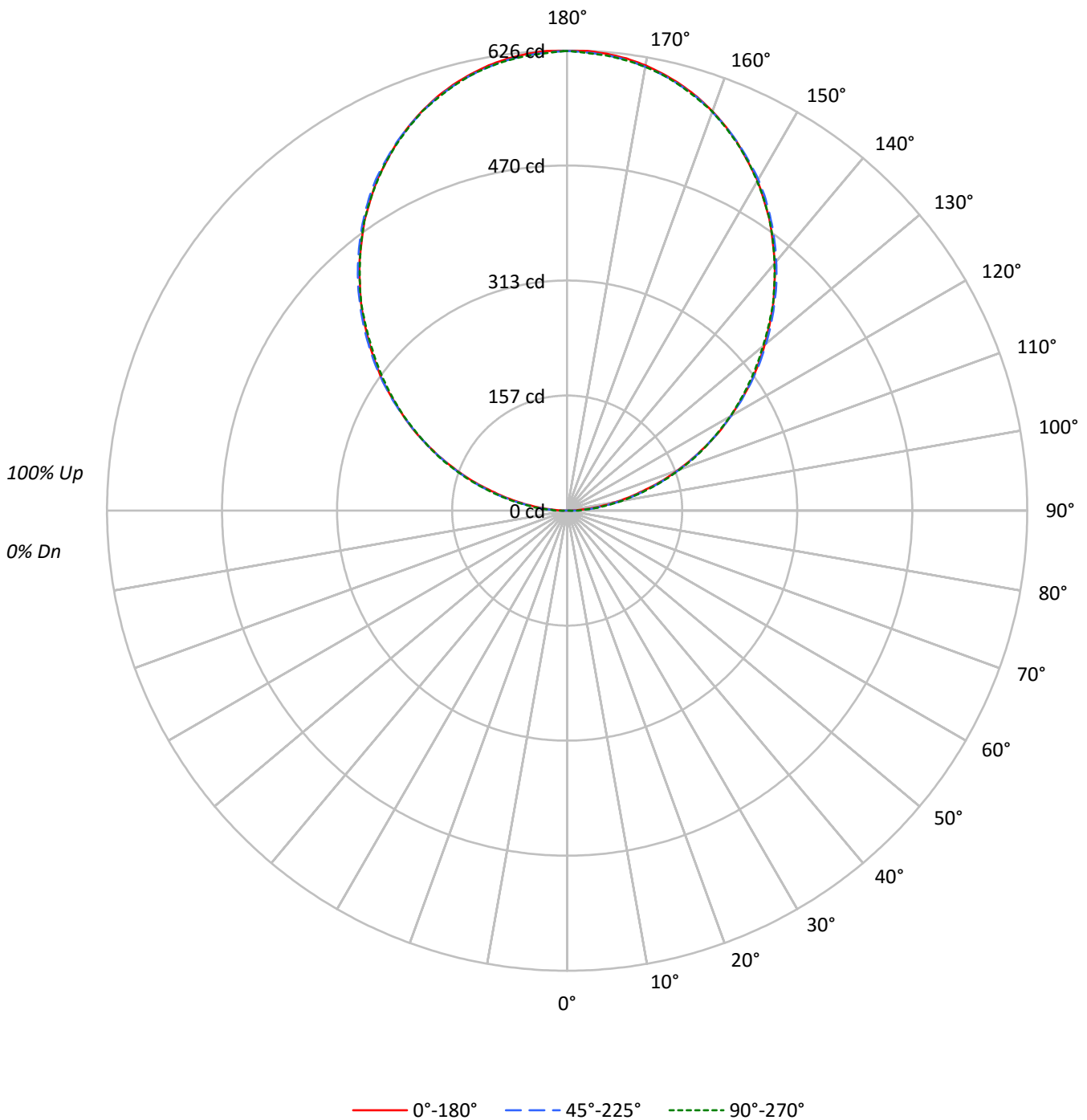
Lumens per Lamp: N/A
Luminaire Lumens: 1733.6 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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: P334676
CATALOG NUMBER: S123IP-S585U935-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334676

CATALOG NUMBER: S123IP-S585U935-4F0-1E-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: P334676

CATALOG NUMBER: S123IP-S585U935-4F0-1E-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°	1.3	0.1
90°-100°	40.2	2.3
100°-110°	121.8	7.0
110°-120°	207.4	12.0
120°-130°	272.8	15.7
130°-140°	306.6	17.7
140°-150°	301.5	17.4
150°-160°	253.8	14.6
160°-170°	169.0	9.7
170°-180°	59.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.3	0.1
90°-120°	369.4	21.3
90°-150°	1250.3	72.1
90°-180°	1732.0	99.9
0°-180°	1733.6	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	5	12	14	15	2
95°	29	32	36	38	38	32
105°	110	112	116	116	117	118
115°	209	210	209	210	209	207
125°	306	307	306	304	302	272
135°	396	399	399	397	396	305
145°	481	482	483	483	481	300
155°	550	550	551	553	550	253
165°	600	598	598	601	598	169
175°	624	622	622	625	621	59
180°	625	625	625	625	625	



TEST NUMBER: P334676

CATALOG NUMBER: S123IP-S585U935-4F0-1E-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	5.4	11.8	13.8	14.7
92.5°	14.7	17.7	20.6	22.1	21.1
95°	29.0	32.4	36.3	38.3	38.3
97.5°	47.6	50.1	53.0	55.5	55.0
100°	66.8	69.7	72.2	73.7	74.6
102.5°	88.9	90.4	93.8	95.3	94.8
105°	110.5	111.5	115.9	115.9	116.9
107.5°	136.0	136.5	138.5	140.0	139.5
110°	159.6	160.6	161.6	163.5	162.6



TEST NUMBER: P334676

CATALOG NUMBER: S123IP-S585U935-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.2	184.7	184.7	187.1	187.1
115°	208.7	210.2	209.2	209.7	209.2
117.5°	233.8	234.3	233.3	233.3	231.8
120°	256.8	259.8	257.3	256.8	255.9
122.5°	280.9	282.9	281.9	280.4	278.9
125°	305.5	306.9	306.0	304.0	302.0
127.5°	328.1	331.0	330.0	327.1	325.1
130°	350.6	354.6	353.1	351.1	347.7
132.5°	373.2	377.2	376.2	373.7	371.3
135°	396.3	399.3	398.8	396.8	395.8
137.5°	417.4	419.9	421.4	418.9	417.4
140°	439.5	442.0	442.5	442.0	438.6
142.5°	459.7	462.1	463.1	462.6	460.2
145°	480.8	481.8	483.2	482.8	480.8
147.5°	499.0	500.9	502.4	502.4	499.5
150°	518.1	519.1	520.1	520.1	517.1
152.5°	533.8	535.3	535.8	536.8	534.3
155°	550.5	550.5	551.0	553.0	549.5
157.5°	564.8	564.3	564.8	566.7	563.8
160°	578.0	577.1	577.1	579.5	577.5
162.5°	589.8	588.3	588.8	591.3	587.9
165°	599.6	598.2	598.2	601.1	597.7
167.5°	608.0	606.0	606.5	609.5	606.5
170°	614.9	612.9	612.9	616.3	612.9
172.5°	620.3	618.3	618.3	621.2	617.8
175°	623.7	621.7	621.7	624.7	621.2
177.5°	625.7	623.7	623.7	626.7	623.2
180°	625.2	625.2	625.2	625.2	625.2

(END OF REPORT)