

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: P334671

Luminaire Tested: **S123IP-S585U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334671
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-S585U930-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 585 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

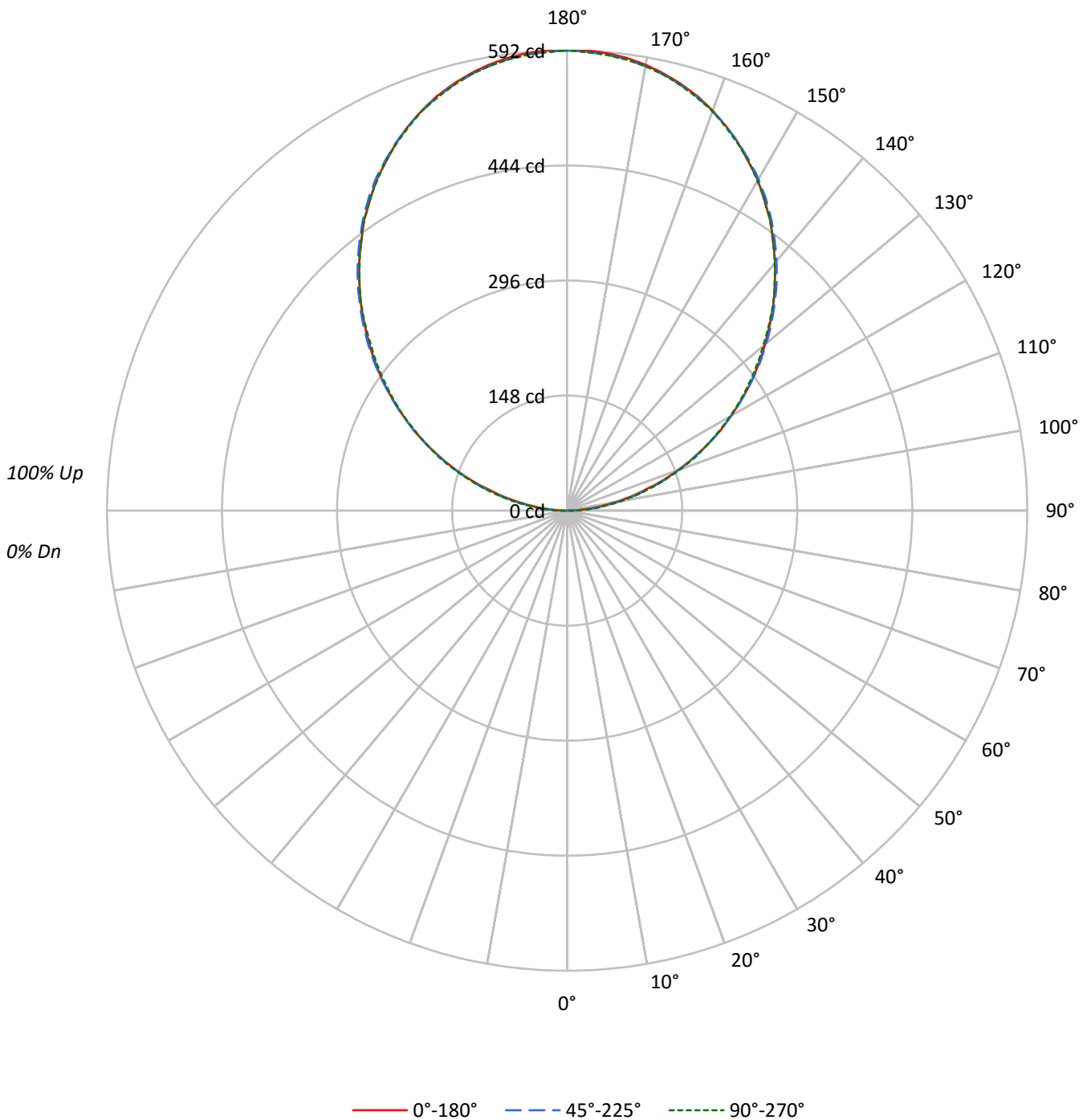
Lumens per Lamp: N/A
Luminaire Lumens: 1641.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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: P334671
CATALOG NUMBER: S123IP-S585U930-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334671

CATALOG NUMBER: S123IP-S585U930-4F0-1E-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: P334671

CATALOG NUMBER: S123IP-S585U930-4F0-1E-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°	38.1	2.3
100°-110°	115.3	7.0
110°-120°	196.4	12.0
120°-130°	258.3	15.7
130°-140°	290.4	17.7
140°-150°	285.5	17.4
150°-160°	240.3	14.6
160°-170°	160.0	9.7
170°-180°	56.0	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°	349.8	21.3
90°-150°	1184.0	72.1
90°-180°	1640.0	99.9
0°-180°	1641.6	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	11	13	14	2
95°	27	31	34	36	36	30
105°	105	106	110	110	111	112
115°	198	199	198	199	198	196
125°	289	291	290	288	286	258
135°	375	378	378	376	375	289
145°	455	456	458	457	455	284
155°	521	521	522	524	520	240
165°	568	566	566	569	566	160
175°	591	589	589	592	588	56
180°	592	592	592	592	592	



TEST NUMBER: P334671

CATALOG NUMBER: S123IP-S585U930-4F0-1E-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	5.1	11.2	13.0	14.0
92.5°	14.0	16.7	19.5	20.9	20.0
95°	27.4	30.7	34.4	36.3	36.3
97.5°	45.1	47.4	50.2	52.5	52.1
100°	63.2	66.0	68.4	69.8	70.7
102.5°	84.2	85.6	88.8	90.2	89.8
105°	104.6	105.6	109.7	109.7	110.7
107.5°	128.8	129.3	131.1	132.5	132.1
110°	151.1	152.1	153.0	154.9	153.9



TEST NUMBER: P334671

CATALOG NUMBER: S123IP-S585U930-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.4	174.9	174.9	177.2	177.2
115°	197.6	199.0	198.1	198.6	198.1
117.5°	221.4	221.8	220.9	220.9	219.5
120°	243.2	246.0	243.7	243.2	242.3
122.5°	266.0	267.9	266.9	265.5	264.1
125°	289.3	290.6	289.7	287.9	286.0
127.5°	310.6	313.4	312.5	309.7	307.9
130°	332.0	335.8	334.4	332.5	329.2
132.5°	353.4	357.2	356.2	353.9	351.6
135°	375.3	378.1	377.6	375.8	374.8
137.5°	395.3	397.6	399.0	396.7	395.3
140°	416.2	418.5	419.0	418.5	415.3
142.5°	435.3	437.6	438.5	438.1	435.7
145°	455.3	456.2	457.6	457.1	455.3
147.5°	472.5	474.3	475.7	475.7	472.9
150°	490.6	491.5	492.5	492.5	489.7
152.5°	505.5	506.9	507.4	508.3	506.0
155°	521.3	521.3	521.8	523.6	520.4
157.5°	534.8	534.3	534.8	536.7	533.9
160°	547.4	546.4	546.4	548.7	546.9
162.5°	558.5	557.1	557.6	559.9	556.7
165°	567.8	566.4	566.4	569.2	566.0
167.5°	575.7	573.9	574.3	577.1	574.3
170°	582.2	580.4	580.4	583.6	580.4
172.5°	587.3	585.5	585.5	588.3	585.0
175°	590.6	588.7	588.7	591.5	588.3
177.5°	592.5	590.6	590.6	593.4	590.1
180°	592.0	592.0	592.0	592.0	592.0

(END OF REPORT)