

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: P334501

Luminaire Tested: **S122IP-S530U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S530U935-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 530 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

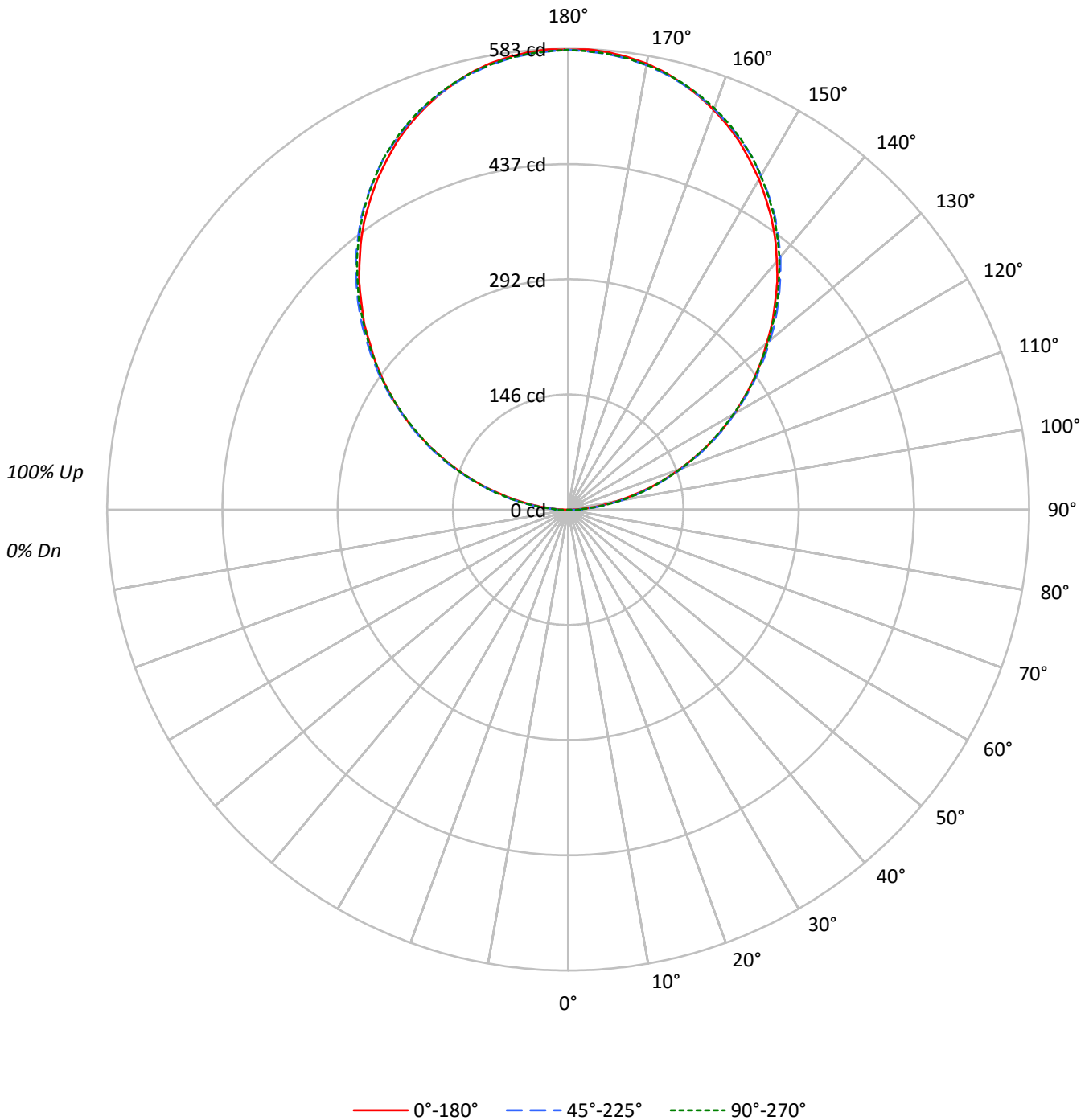
Lumens per Lamp: N/A
Luminaire Lumens: 1628.3 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P334501
 CATALOG NUMBER: S122IP-S530U935-4F0-1E-UDD-1

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°	1.7	0.1
90°-100°	36.0	2.2
100°-110°	114.4	7.0
110°-120°	195.8	12.0
120°-130°	257.5	15.8
130°-140°	289.0	17.7
140°-150°	283.4	17.4
150°-160°	237.7	14.6
160°-170°	157.7	9.7
170°-180°	55.1	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	346.2	21.3
90°-150°	1176.1	72.2
90°-180°	1627.0	99.9
0°-180°	1628.3	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	6	17	16	17	2
95°	26	30	31	31	30	28
105°	106	107	108	109	109	111
115°	196	199	198	198	196	194
125°	286	290	289	287	287	255
135°	370	375	376	376	374	286
145°	449	452	455	456	454	280
155°	513	514	516	518	517	236
165°	558	558	558	561	559	157
175°	581	579	578	582	579	55
180°	582	582	582	582	582	



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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	6.4	17.2	16.2	16.7
92.5°	10.8	14.7	15.2	15.7	15.7
95°	25.5	30.4	31.4	31.4	30.4
97.5°	42.7	47.1	49.1	49.1	49.1
100°	62.4	66.3	67.8	67.8	67.3
102.5°	83.0	85.9	87.9	88.4	87.9
105°	105.6	107.0	108.0	109.0	109.0
107.5°	128.1	130.1	130.1	130.6	128.1
110°	149.7	152.7	152.7	152.7	151.2



TEST NUMBER: P334501

CATALOG NUMBER: S122IP-S530U935-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.3	176.3	175.8	174.3	173.3
115°	196.4	199.3	198.4	197.9	196.4
117.5°	219.5	223.4	220.9	219.5	218.0
120°	242.5	246.5	242.5	242.5	241.1
122.5°	263.7	268.6	266.1	264.6	263.7
125°	285.8	290.2	288.7	287.2	286.7
127.5°	307.4	312.8	310.8	308.8	307.4
130°	327.5	333.9	332.9	331.9	329.9
132.5°	350.1	355.0	355.5	353.0	351.5
135°	369.7	375.1	376.1	375.6	374.1
137.5°	391.3	395.7	396.7	396.2	394.3
140°	410.5	414.9	417.3	417.3	415.4
142.5°	430.1	434.5	436.0	436.5	434.5
145°	448.8	452.2	455.1	455.6	453.7
147.5°	465.4	469.9	471.8	472.8	470.9
150°	482.6	485.6	487.5	489.0	487.5
152.5°	497.9	500.8	503.3	505.2	503.3
155°	513.1	514.5	516.0	518.5	517.0
157.5°	526.3	527.3	528.3	531.7	529.3
160°	538.1	539.1	539.6	542.5	540.6
162.5°	548.9	548.9	549.4	552.8	550.4
165°	558.2	557.8	557.8	561.2	558.7
167.5°	566.6	565.1	565.1	568.6	566.1
170°	573.0	571.5	571.0	574.4	571.5
172.5°	577.4	575.9	575.4	578.9	575.9
175°	580.8	579.4	578.4	581.8	578.9
177.5°	582.8	581.3	580.3	583.3	580.3
180°	581.8	581.8	581.8	581.8	581.8

(END OF REPORT)