

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: P334475

Luminaire Tested: **S122IP-S330U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334475
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-S330U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 330 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

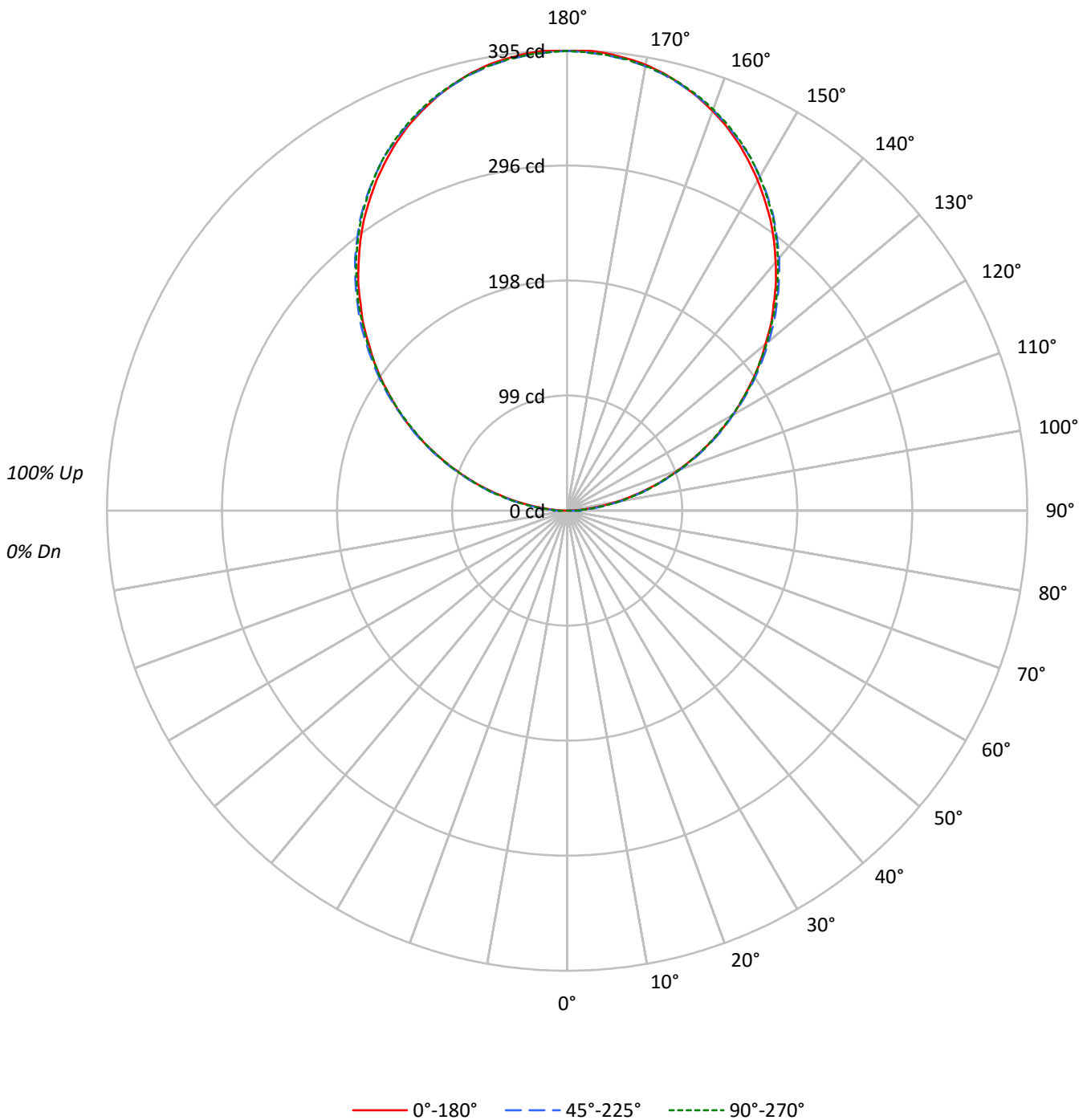
Lumens per Lamp: N/A
Luminaire Lumens: 1104.4 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 11.4
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



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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	0.1
90°-100°	24.4	2.2
100°-110°	77.6	7.0
110°-120°	132.8	12.0
120°-130°	174.6	15.8
130°-140°	196.0	17.7
140°-150°	192.2	17.4
150°-160°	161.2	14.6
160°-170°	106.9	9.7
170°-180°	37.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.1
90°-120°	234.8	21.3
90°-150°	797.7	72.2
90°-180°	1103.0	99.9
0°-180°	1104.4	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	12	11	11	1
95°	17	21	21	21	21	19
105°	72	73	73	74	74	76
115°	133	135	134	134	133	132
125°	194	197	196	195	194	173
135°	251	254	255	255	254	194
145°	304	307	309	309	308	190
155°	348	349	350	352	351	160
165°	379	378	378	381	379	107
175°	394	393	392	395	393	37
180°	395	395	395	395	395	



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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°	0.3	4.3	11.7	11.0	11.3
92.5°	7.3	10.0	10.3	10.7	10.7
95°	17.3	20.6	21.3	21.3	20.6
97.5°	29.0	32.0	33.3	33.3	33.3
100°	42.3	45.0	46.0	46.0	45.6
102.5°	56.3	58.3	59.6	59.9	59.6
105°	71.6	72.6	73.3	73.9	73.9
107.5°	86.9	88.2	88.2	88.6	86.9
110°	101.6	103.6	103.6	103.6	102.6



TEST NUMBER: P334475

CATALOG NUMBER: S122IP-S330U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.5	119.5	119.2	118.2	117.5
115°	133.2	135.2	134.5	134.2	133.2
117.5°	148.9	151.5	149.9	148.9	147.9
120°	164.5	167.2	164.5	164.5	163.5
122.5°	178.8	182.2	180.5	179.5	178.8
125°	193.8	196.8	195.8	194.8	194.5
127.5°	208.5	212.1	210.8	209.5	208.5
130°	222.1	226.4	225.8	225.1	223.8
132.5°	237.4	240.8	241.1	239.4	238.4
135°	250.7	254.4	255.1	254.7	253.7
137.5°	265.4	268.4	269.1	268.7	267.4
140°	278.4	281.4	283.1	283.1	281.7
142.5°	291.7	294.7	295.7	296.0	294.7
145°	304.4	306.7	308.7	309.0	307.7
147.5°	315.7	318.7	320.0	320.7	319.3
150°	327.3	329.3	330.7	331.7	330.7
152.5°	337.7	339.7	341.3	342.7	341.3
155°	348.0	349.0	350.0	351.6	350.6
157.5°	357.0	357.6	358.3	360.6	359.0
160°	365.0	365.6	366.0	368.0	366.6
162.5°	372.3	372.3	372.6	375.0	373.3
165°	378.6	378.3	378.3	380.6	379.0
167.5°	384.3	383.3	383.3	385.6	383.9
170°	388.6	387.6	387.3	389.6	387.6
172.5°	391.6	390.6	390.3	392.6	390.6
175°	393.9	392.9	392.3	394.6	392.6
177.5°	395.3	394.3	393.6	395.6	393.6
180°	394.6	394.6	394.6	394.6	394.6

(END OF REPORT)