

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: P334650

Luminaire Tested: **S123IP-S365U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334650  
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-S365U830-4F0-1E-UDD-1  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 365 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

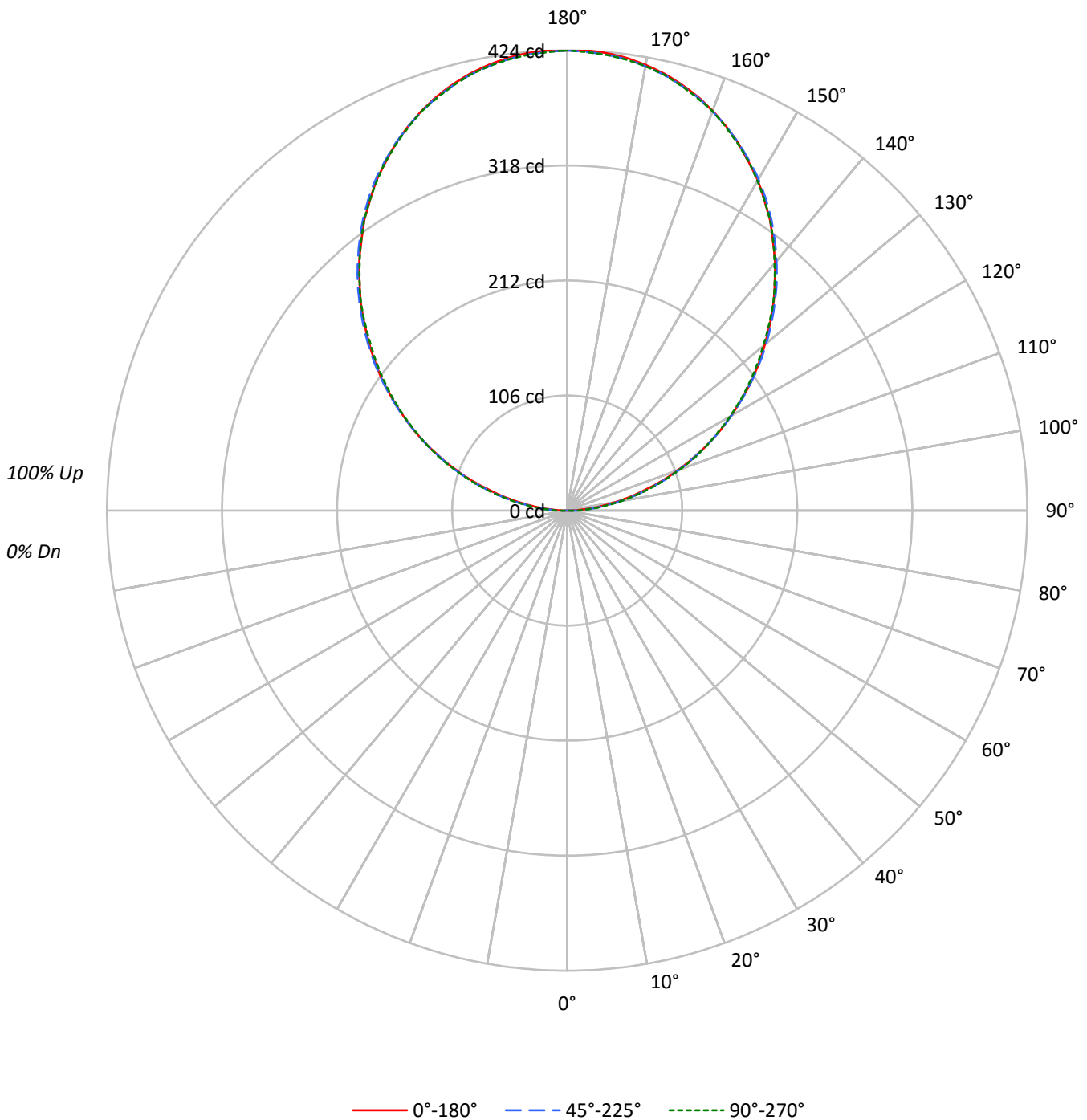
Lumens per Lamp: N/A  
Luminaire Lumens: 1175.8 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 11.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P334650  
CATALOG NUMBER: S123IP-S365U830-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P334650

CATALOG NUMBER: S123IP-S365U830-4F0-1E-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: P334650

CATALOG NUMBER: S123IP-S365U830-4F0-1E-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°	27.3	2.3
100°-110°	82.6	7.0
110°-120°	140.6	12.0
120°-130°	185.0	15.7
130°-140°	208.0	17.7
140°-150°	204.5	17.4
150°-160°	172.1	14.6
160°-170°	114.6	9.7
170°-180°	40.1	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°	250.5	21.3
90°-150°	848.0	72.1
90°-180°	1175.0	99.9
0°-180°	1175.8	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	8	9	10	1
95°	20	22	25	26	26	22
105°	75	76	79	79	79	80
115°	142	143	142	142	142	140
125°	207	208	208	206	205	185
135°	269	271	270	269	268	207
145°	326	327	328	327	326	204
155°	373	373	374	375	373	172
165°	407	406	406	408	405	115
175°	423	422	422	424	421	40
180°	424	424	424	424	424	



TEST NUMBER: P334650

CATALOG NUMBER: S123IP-S365U830-4F0-1E-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°	0.3	3.7	8.0	9.3	10.0
92.5°	10.0	12.0	14.0	15.0	14.3
95°	19.7	22.0	24.6	26.0	26.0
97.5°	32.3	34.0	36.0	37.6	37.3
100°	45.3	47.3	49.0	50.0	50.6
102.5°	60.3	61.3	63.6	64.6	64.3
105°	74.9	75.6	78.6	78.6	79.3
107.5°	92.3	92.6	93.9	94.9	94.6
110°	108.3	108.9	109.6	110.9	110.3



TEST NUMBER: P334650

CATALOG NUMBER: S123IP-S365U830-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	124.9	125.2	125.2	126.9	126.9
115°	141.6	142.6	141.9	142.2	141.9
117.5°	158.5	158.9	158.2	158.2	157.2
120°	174.2	176.2	174.5	174.2	173.5
122.5°	190.5	191.9	191.2	190.2	189.2
125°	207.2	208.2	207.5	206.2	204.8
127.5°	222.5	224.5	223.8	221.8	220.5
130°	237.8	240.5	239.5	238.2	235.8
132.5°	253.1	255.8	255.1	253.5	251.8
135°	268.8	270.8	270.5	269.1	268.5
137.5°	283.1	284.8	285.8	284.1	283.1
140°	298.1	299.8	300.1	299.8	297.4
142.5°	311.8	313.4	314.1	313.8	312.1
145°	326.1	326.8	327.8	327.4	326.1
147.5°	338.4	339.7	340.7	340.7	338.7
150°	351.4	352.1	352.7	352.7	350.7
152.5°	362.1	363.1	363.4	364.1	362.4
155°	373.4	373.4	373.7	375.1	372.7
157.5°	383.0	382.7	383.0	384.4	382.4
160°	392.0	391.4	391.4	393.0	391.7
162.5°	400.0	399.0	399.4	401.0	398.7
165°	406.7	405.7	405.7	407.7	405.4
167.5°	412.4	411.0	411.4	413.4	411.4
170°	417.0	415.7	415.7	418.0	415.7
172.5°	420.7	419.4	419.4	421.4	419.0
175°	423.0	421.7	421.7	423.7	421.4
177.5°	424.4	423.0	423.0	425.0	422.7
180°	424.0	424.0	424.0	424.0	424.0

(END OF REPORT)