

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: P334756

Luminaire Tested: **S123IW-S755U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123IW-S755U830-4F0-1E-UDD  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 755 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

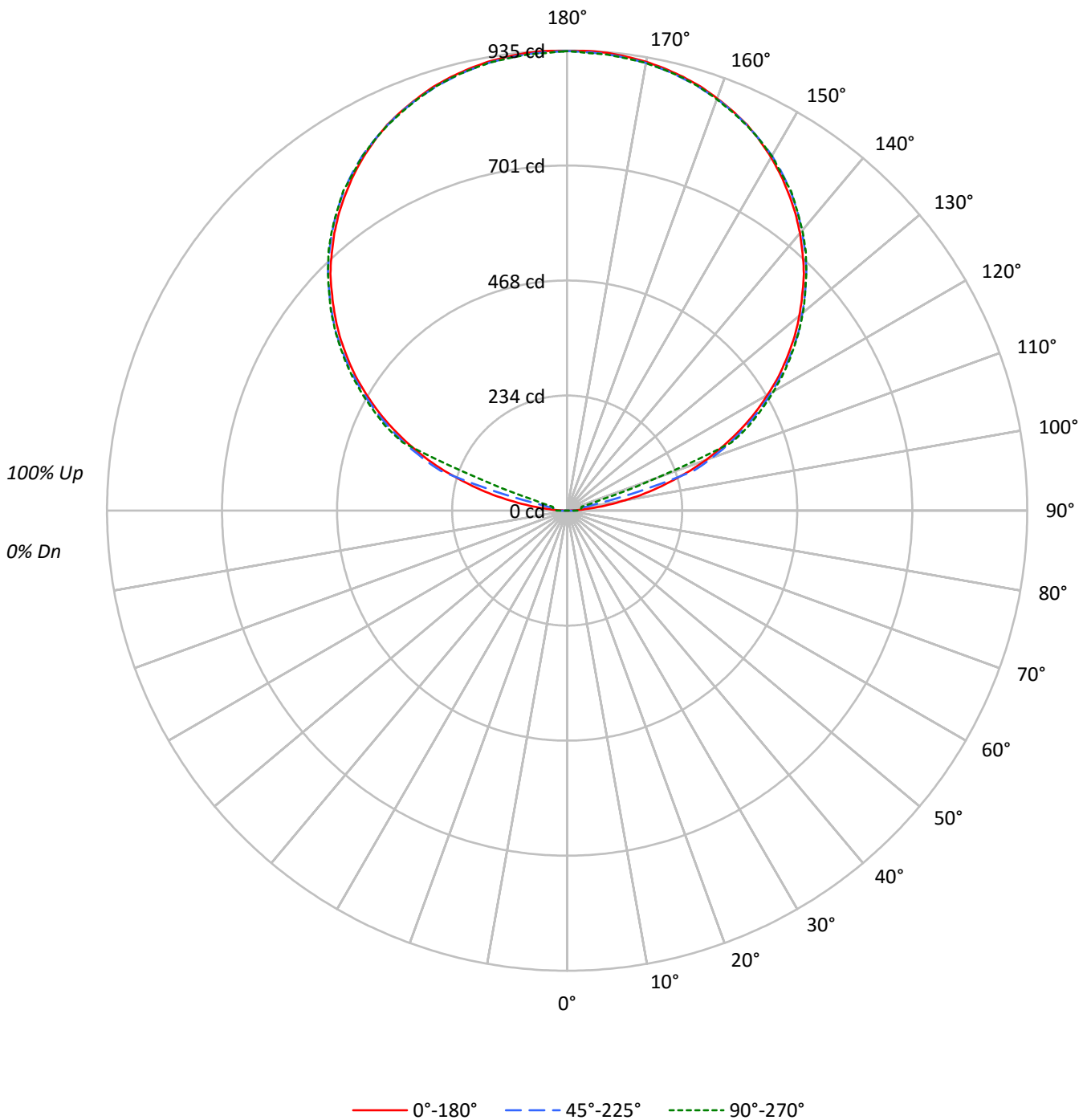
Lumens per Lamp: N/A  
Luminaire Lumens: 2847.9 lumens  
Efficiency: N/A  
Efficacy: 203.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 14  
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



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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°	1.9	0.1
90°-100°	32.9	1.2
100°-110°	159.2	5.6
110°-120°	390.0	13.7
120°-130°	495.1	17.4
130°-140°	528.9	18.6
140°-150°	494.6	17.4
150°-160°	399.0	14.0
160°-170°	257.5	9.0
170°-180°	88.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	582.1	20.4
90°-150°	2100.9	73.8
90°-180°	2846.0	99.9
0°-180°	2847.9	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°	1	8	17	19	21	2
95°	42	14	22	26	26	51
105°	207	214	152	29	30	219
115°	388	392	398	405	408	383
125°	546	552	555	556	558	488
135°	680	685	687	689	687	524
145°	785	790	791	793	793	492
155°	865	864	864	868	864	399
165°	912	910	909	915	910	258
175°	934	930	931	936	930	89
180°	934	934	934	934	934	



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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°	0.7	7.6	16.6	19.4	20.8
92.5°	16.0	11.8	18.0	22.9	23.6
95°	42.3	13.9	21.5	26.4	26.4
97.5°	77.0	57.6	22.2	27.7	28.4
100°	117.2	131.1	22.9	28.4	29.1
102.5°	163.0	172.0	51.3	28.4	29.8
105°	206.7	214.3	151.9	29.1	30.5
107.5°	253.2	259.4	269.8	163.0	72.1
110°	299.6	305.2	312.8	289.9	190.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	344.0	348.9	356.5	362.7	361.4
115°	387.7	391.9	398.1	405.1	407.8
117.5°	430.7	435.6	439.0	444.6	445.3
120°	470.2	476.5	478.6	484.1	484.1
122.5°	510.5	515.3	518.1	521.6	522.3
125°	546.5	552.1	554.9	556.3	557.6
127.5°	582.6	588.2	591.6	593.7	592.3
130°	615.9	621.4	624.2	627.0	625.6
132.5°	647.8	653.4	655.4	658.2	656.1
135°	680.4	684.6	687.3	689.4	687.3
137.5°	708.1	713.7	715.1	718.5	717.2
140°	735.9	740.0	742.1	744.9	743.5
142.5°	761.6	765.7	767.8	769.9	767.8
145°	785.1	790.0	791.4	792.8	792.8
147.5°	808.0	811.5	812.9	814.3	810.8
150°	828.8	830.9	832.3	833.7	831.6
152.5°	847.6	848.2	848.9	851.7	848.2
155°	864.9	863.5	864.2	867.7	863.5
157.5°	878.8	878.8	878.1	882.2	876.7
160°	891.2	890.6	889.9	894.0	889.2
162.5°	903.0	901.0	900.3	905.1	901.0
165°	912.1	910.0	909.3	914.8	910.0
167.5°	919.7	916.9	916.9	922.5	916.9
170°	925.9	923.2	923.2	928.7	923.2
172.5°	930.1	926.6	927.3	932.9	926.6
175°	933.6	930.1	930.8	935.6	930.1
177.5°	934.9	931.5	932.2	937.7	930.8
180°	933.6	933.6	933.6	933.6	933.6

(END OF REPORT)