

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: P334761

Luminaire Tested: **S123IW-S755U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334761
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-S755U835-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 755 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

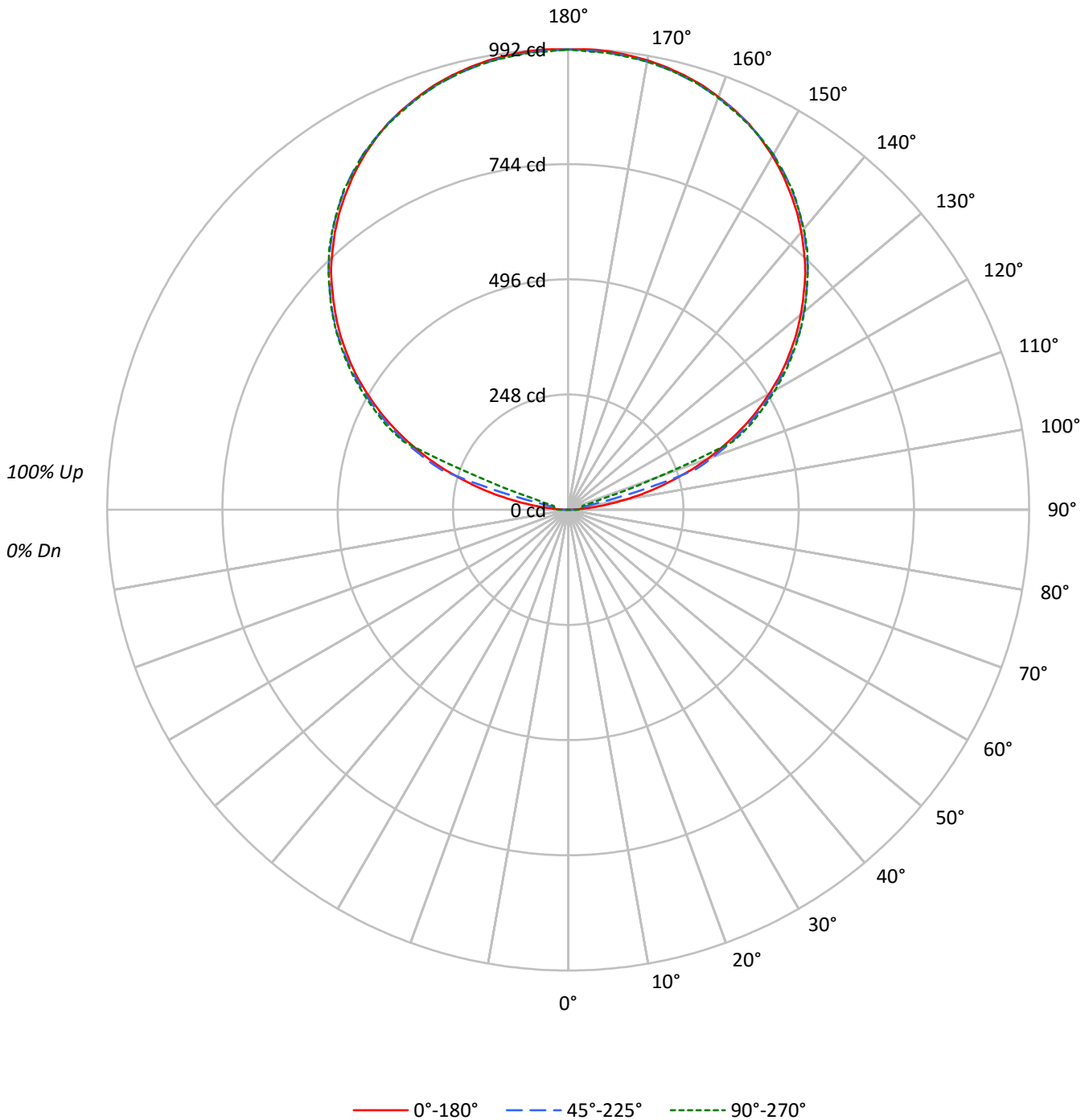
Lumens per Lamp: N/A
Luminaire Lumens: 3021.5 lumens
Efficiency: N/A
Efficacy: 215.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.0	0.1
90°-100°	34.9	1.2
100°-110°	168.9	5.6
110°-120°	413.8	13.7
120°-130°	525.3	17.4
130°-140°	561.2	18.6
140°-150°	524.8	17.4
150°-160°	423.3	14.0
160°-170°	273.2	9.0
170°-180°	94.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	617.6	20.4
90°-150°	2228.9	73.8
90°-180°	3020.0	100.0
0°-180°	3021.5	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	18	21	22	3
95°	45	15	23	28	28	54
105°	219	227	161	31	32	233
115°	411	416	422	430	433	406
125°	580	586	589	590	592	518
135°	722	726	729	731	729	556
145°	833	838	840	841	841	522
155°	918	916	917	921	916	423
165°	968	965	965	971	965	273
175°	990	987	988	993	987	94
180°	990	990	990	990	990	



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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	8.1	17.7	20.6	22.1
92.5°	16.9	12.5	19.1	24.3	25.0
95°	44.9	14.7	22.8	28.0	28.0
97.5°	81.7	61.1	23.5	29.4	30.2
100°	124.4	139.1	24.3	30.2	30.9
102.5°	172.9	182.5	54.5	30.2	31.6
105°	219.3	227.4	161.2	30.9	32.4
107.5°	268.6	275.2	286.2	172.9	76.5
110°	317.9	323.8	331.9	307.6	202.4



TEST NUMBER: P334761

CATALOG NUMBER: S123IW-S755U835-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.0	370.1	378.2	384.9	383.4
115°	411.3	415.8	422.4	429.7	432.7
117.5°	457.0	462.1	465.8	471.7	472.4
120°	498.9	505.5	507.7	513.6	513.6
122.5°	541.6	546.7	549.7	553.4	554.1
125°	579.9	585.7	588.7	590.2	591.6
127.5°	618.1	624.0	627.7	629.9	628.4
130°	653.4	659.3	662.3	665.2	663.7
132.5°	687.3	693.2	695.4	698.3	696.1
135°	721.9	726.3	729.2	731.4	729.2
137.5°	751.3	757.2	758.7	762.4	760.9
140°	780.7	785.2	787.4	790.3	788.8
142.5°	808.0	812.4	814.6	816.8	814.6
145°	833.0	838.1	839.6	841.1	841.1
147.5°	857.3	861.0	862.4	863.9	860.2
150°	879.4	881.6	883.0	884.5	882.3
152.5°	899.2	900.0	900.7	903.6	900.0
155°	917.6	916.1	916.9	920.6	916.1
157.5°	932.3	932.3	931.6	936.0	930.1
160°	945.6	944.8	944.1	948.5	943.4
162.5°	958.1	955.9	955.1	960.3	955.9
165°	967.7	965.4	964.7	970.6	965.4
167.5°	975.8	972.8	972.8	978.7	972.8
170°	982.4	979.4	979.4	985.3	979.4
172.5°	986.8	983.1	983.8	989.7	983.1
175°	990.5	986.8	987.5	992.7	986.8
177.5°	991.9	988.3	989.0	994.9	987.5
180°	990.5	990.5	990.5	990.5	990.5

(END OF REPORT)