

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: P334686

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334686
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: S123IW-S755U830-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 2469.5 lumens
Efficiency: N/A
Efficacy: 176.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

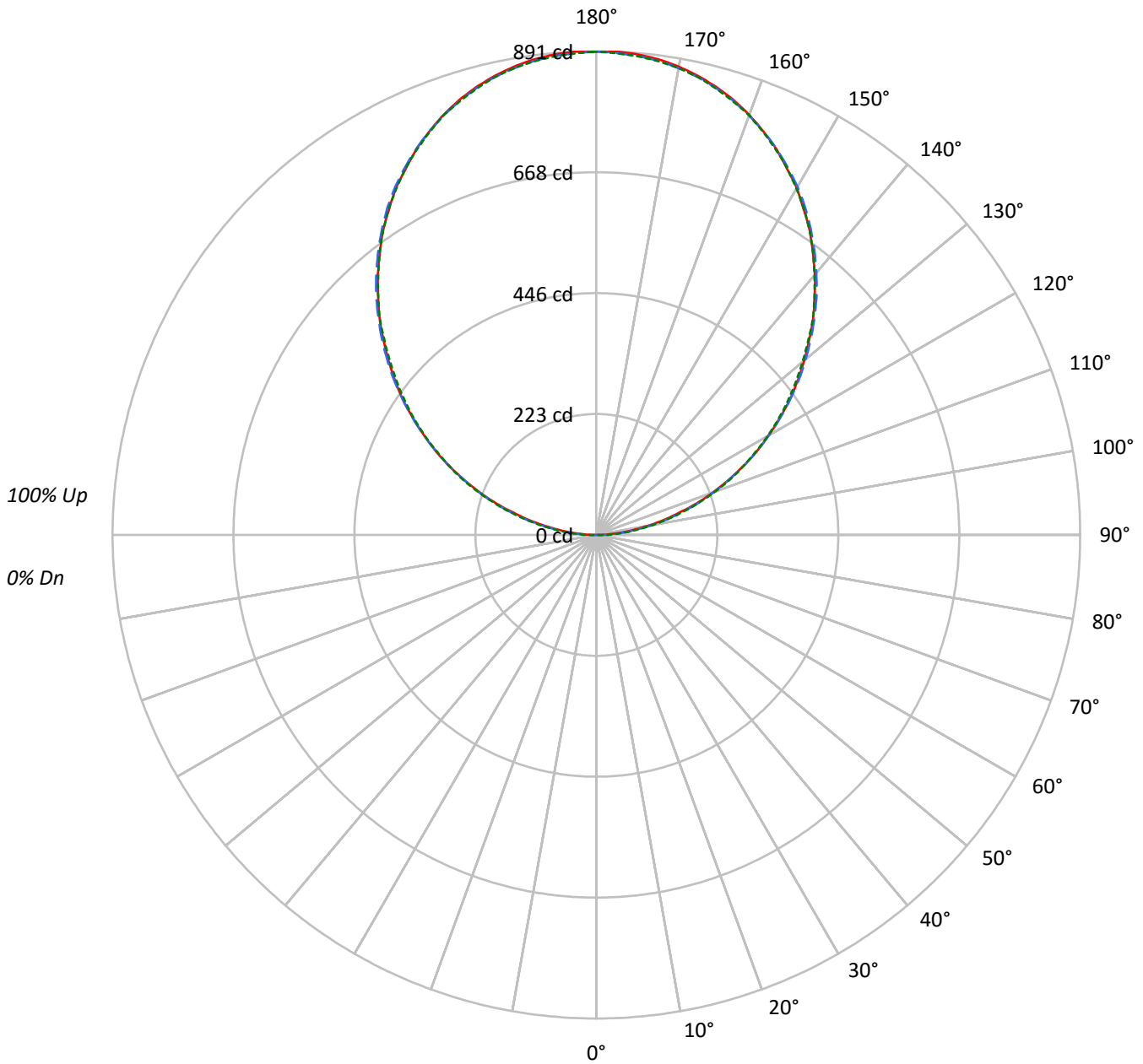
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	57.4	2.3
100°-110°	173.5	7.0
110°-120°	295.4	12.0
120°-130°	388.6	15.7
130°-140°	436.8	17.7
140°-150°	429.4	17.4
150°-160°	361.5	14.6
160°-170°	240.7	9.7
170°-180°	84.3	3.4
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°	526.2	21.3
90°-150°	1781.1	72.1
90°-180°	2468.0	99.9
0°-180°	2469.5	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	17	20	21	3
95°	41	46	52	55	55	45
105°	157	159	165	165	166	168
115°	297	299	298	299	298	294
125°	435	437	436	433	430	388
135°	565	569	568	565	564	435
145°	685	686	688	688	685	428
155°	784	784	785	788	783	361
165°	854	852	852	856	851	241
175°	888	886	886	890	885	84
180°	891	891	891	891	891	



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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	7.7	16.8	19.6	21.0
92.5°	21.0	25.2	29.4	31.5	30.1
95°	41.3	46.2	51.8	54.6	54.6
97.5°	67.9	71.4	75.6	79.1	78.4
100°	95.1	99.3	102.8	104.9	106.3
102.5°	126.6	128.7	133.6	135.7	135.0
105°	157.4	158.8	165.1	165.1	166.5
107.5°	193.8	194.5	197.3	199.4	198.7
110°	227.4	228.8	230.2	233.0	231.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	262.3	263.0	263.0	266.5	266.5
115°	297.3	299.4	298.0	298.7	298.0
117.5°	333.0	333.7	332.3	332.3	330.2
120°	365.9	370.1	366.6	365.9	364.5
122.5°	400.2	403.0	401.6	399.5	397.4
125°	435.1	437.2	435.8	433.0	430.2
127.5°	467.3	471.5	470.1	465.9	463.1
130°	499.5	505.1	503.0	500.2	495.3
132.5°	531.7	537.3	535.9	532.4	528.9
135°	564.6	568.8	568.1	565.3	563.9
137.5°	594.7	598.2	600.3	596.8	594.7
140°	626.1	629.6	630.3	629.6	624.7
142.5°	654.8	658.3	659.7	659.0	655.5
145°	684.9	686.3	688.4	687.7	684.9
147.5°	710.8	713.6	715.7	715.7	711.5
150°	738.1	739.5	740.9	740.9	736.7
152.5°	760.5	762.6	763.3	764.7	761.2
155°	784.2	784.2	784.9	787.7	782.8
157.5°	804.5	803.8	804.5	807.3	803.1
160°	823.4	822.0	822.0	825.5	822.7
162.5°	840.2	838.1	838.8	842.3	837.4
165°	854.2	852.1	852.1	856.3	851.4
167.5°	866.1	863.3	864.0	868.2	864.0
170°	875.9	873.1	873.1	878.0	873.1
172.5°	883.6	880.8	880.8	885.0	880.1
175°	888.5	885.7	885.7	889.9	885.0
177.5°	891.3	888.5	888.5	892.7	887.8
180°	890.6	890.6	890.6	890.6	890.6

(END OF REPORT)