

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: METALUX

Report Number: P274768

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P274768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-UNV-L935-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

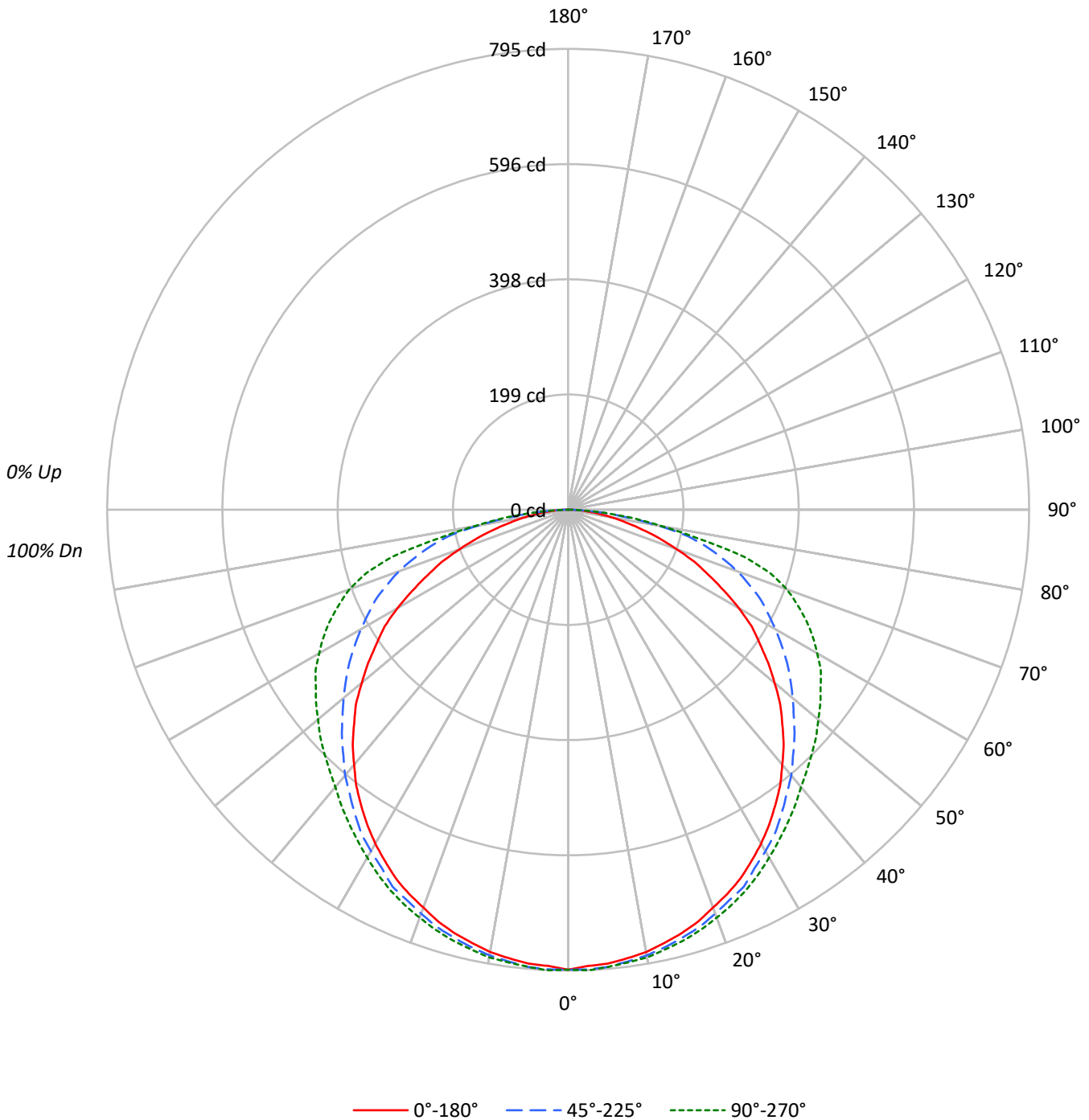
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2135	2135	2135
5°	2123	2138	2138
10°	2117	2133	2143
15°	2107	2128	2143
20°	2091	2123	2145
25°	2086	2130	2152
30°	2067	2113	2154
35°	2045	2106	2167
40°	2017	2102	2193
45°	1987	2100	2263
50°	1945	2116	2357
55°	1892	2162	2494
60°	1830	2220	2670
65°	1704	2331	2887
70°	1564	2441	3158
75°	1371	2569	3265
80°	1181	2447	2563
85°	1031	1778	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.0
10°-20°	215.5	8.5
20°-30°	328.8	13.0
30°-40°	401.5	15.9
40°-50°	429.2	17.0
50°-60°	414.3	16.4
60°-70°	356.7	14.1
70°-80°	241.3	9.6
80°-90°	63.7	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	619.3	24.5
0°-40°	1020.8	40.4
0°-60°	1864.4	73.8
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	786	788	792	792	792	75
15°	756	758	764	767	769	213
25°	702	706	717	721	725	323
35°	622	628	641	654	660	390
45°	522	532	552	580	595	403
55°	403	416	461	507	532	361
65°	268	294	366	424	453	266
75°	132	175	247	297	314	142
85°	33	46	58	60	63	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.5	793.5	793.5	793.5	793.5
2.5°	787.9	789.7	793.5	793.5	795.3
5°	786.0	787.9	791.6	791.6	791.6
7.5°	780.5	782.3	786.0	787.9	787.9
10°	774.9	776.7	780.5	782.3	784.2
12.5°	765.6	767.4	773.0	776.7	776.7
15°	756.3	758.2	763.7	767.4	769.3
17.5°	745.1	748.9	754.4	758.2	760.0
20°	730.3	734.0	741.4	747.0	748.9
22.5°	717.3	721.0	728.4	734.0	737.7
25°	702.4	706.1	717.3	721.0	724.7
27.5°	683.8	687.5	696.8	704.3	709.8
30°	665.2	669.0	680.1	689.4	693.1
32.5°	644.8	650.4	663.4	670.8	676.4
35°	622.5	628.1	641.1	654.1	659.7
37.5°	600.2	605.8	618.8	635.5	642.9
40°	574.2	581.6	598.3	620.6	624.4
42.5°	550.0	559.3	574.2	600.2	609.5
45°	522.2	531.5	551.9	579.8	594.6
47.5°	496.1	505.4	527.7	561.2	579.8
50°	464.6	477.6	505.4	544.5	563.0
52.5°	434.8	446.0	483.1	525.9	548.2
55°	403.2	416.2	460.8	507.3	531.5
57.5°	375.4	386.5	436.7	488.7	516.6
60°	340.1	354.9	412.5	468.3	496.1
62.5°	302.9	325.2	388.4	446.0	475.7
65°	267.6	293.6	366.1	423.7	453.4
67.5°	236.0	263.9	338.2	399.5	427.4
70°	198.8	234.1	310.3	369.8	401.4
72.5°	165.4	204.4	278.7	338.2	366.1
75°	131.9	174.7	247.1	297.3	314.0
77.5°	102.2	143.1	211.8	226.7	228.6
80°	76.2	113.4	157.9	159.8	165.4
82.5°	52.0	79.9	102.2	111.5	113.4
85°	33.4	46.5	57.6	59.5	63.2
87.5°	14.9	16.7	20.4	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)