

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: P277653

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277653
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2587.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

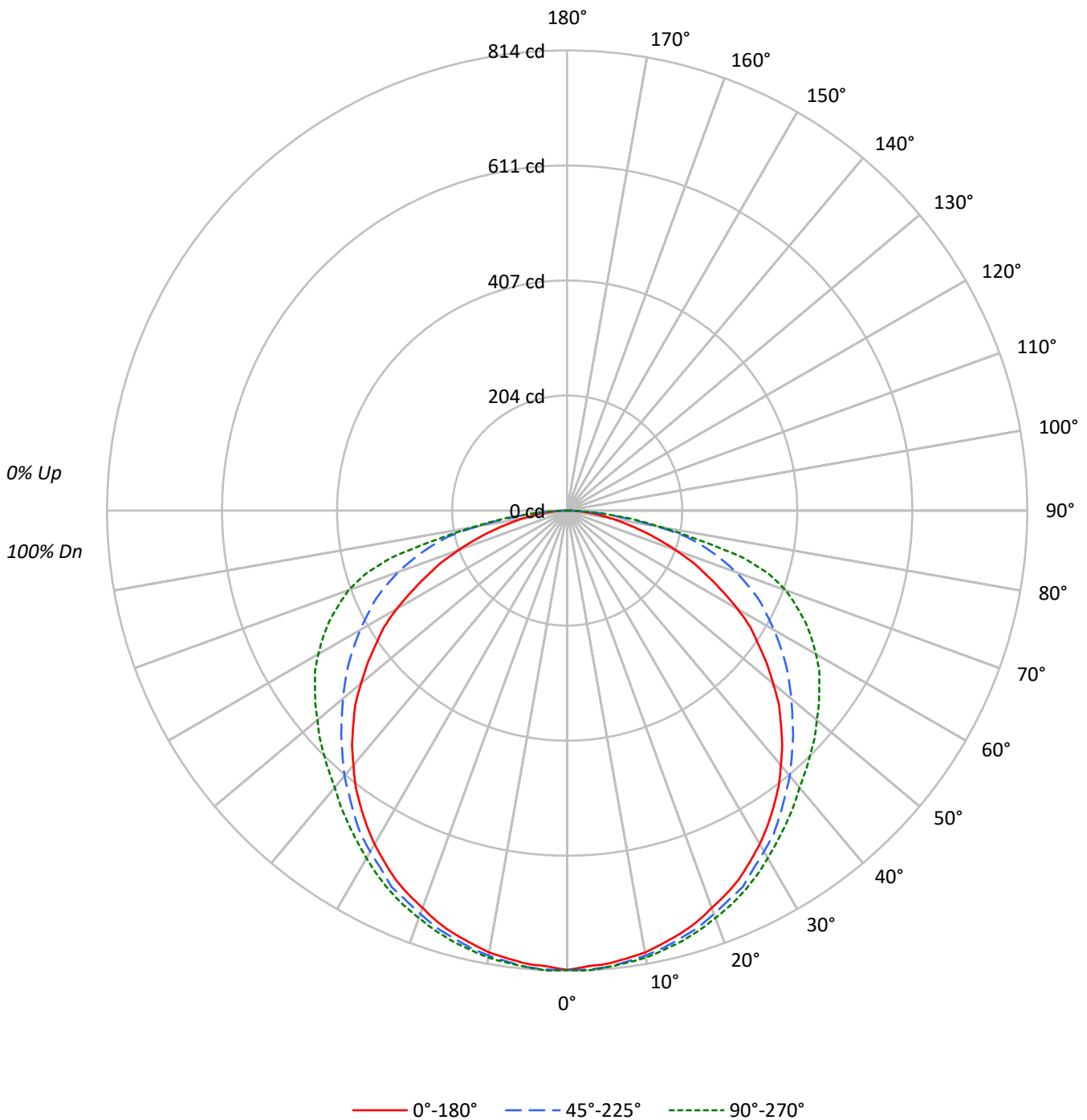
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2187	2187	2187
5°	2175	2190	2190
10°	2169	2184	2194
15°	2158	2179	2195
20°	2142	2174	2196
25°	2136	2181	2204
30°	2117	2164	2206
35°	2094	2157	2219
40°	2066	2153	2246
45°	2035	2151	2318
50°	1992	2167	2414
55°	1938	2214	2554
60°	1875	2274	2735
65°	1745	2387	2957
70°	1602	2500	3234
75°	1405	2632	3344
80°	1209	2507	2625
85°	1059	1822	1998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	220.7	8.5
20°-30°	336.7	13.0
30°-40°	411.1	15.9
40°-50°	439.6	17.0
50°-60°	424.3	16.4
60°-70°	365.3	14.1
70°-80°	247.1	9.6
80°-90°	65.2	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°	634.3	24.5
0°-40°	1045.4	40.4
0°-60°	1909.4	73.8
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	805	807	811	811	811	76
15°	775	776	782	786	788	219
25°	719	723	735	738	742	331
35°	638	643	657	670	676	399
45°	535	544	565	594	609	413
55°	413	426	472	520	544	370
65°	274	301	375	434	464	273
75°	135	179	253	304	322	145
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.6	812.6	812.6	812.6	812.6
2.5°	806.9	808.8	812.6	812.6	814.5
5°	805.0	806.9	810.7	810.7	810.7
7.5°	799.3	801.2	805.0	806.9	806.9
10°	793.6	795.5	799.3	801.2	803.1
12.5°	784.1	786.0	791.7	795.5	795.5
15°	774.6	776.5	782.2	786.0	787.9
17.5°	763.1	766.9	772.7	776.5	778.4
20°	747.9	751.7	759.3	765.0	766.9
22.5°	734.6	738.4	746.0	751.7	755.5
25°	719.4	723.2	734.6	738.4	742.2
27.5°	700.3	704.1	713.7	721.3	727.0
30°	681.3	685.1	696.5	706.0	709.9
32.5°	660.4	666.1	679.4	687.0	692.7
35°	637.5	643.2	656.6	669.9	675.6
37.5°	614.7	620.4	633.7	650.9	658.5
40°	588.1	595.7	612.8	635.6	639.4
42.5°	563.3	572.8	588.1	614.7	624.2
45°	534.8	544.3	565.2	593.8	609.0
47.5°	508.1	517.6	540.5	574.7	593.8
50°	475.8	489.1	517.6	557.6	576.6
52.5°	445.3	456.7	494.8	538.6	561.4
55°	413.0	426.3	472.0	519.5	544.3
57.5°	384.4	395.8	447.2	500.5	529.1
60°	348.3	363.5	422.5	479.6	508.1
62.5°	310.2	333.0	397.7	456.7	487.2
65°	274.0	300.7	374.9	433.9	464.4
67.5°	241.7	270.2	346.4	409.2	437.7
70°	203.6	239.8	317.8	378.7	411.1
72.5°	169.4	209.3	285.5	346.4	374.9
75°	135.1	178.9	253.1	304.5	321.6
77.5°	104.7	146.5	217.0	232.2	234.1
80°	78.0	116.1	161.8	163.7	169.4
82.5°	53.3	81.8	104.7	114.2	116.1
85°	34.3	47.6	59.0	60.9	64.7
87.5°	15.2	17.1	20.9	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)