

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: P277648

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277648
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246.0 lumens
Efficiency: N/A
Efficacy: 65.4 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

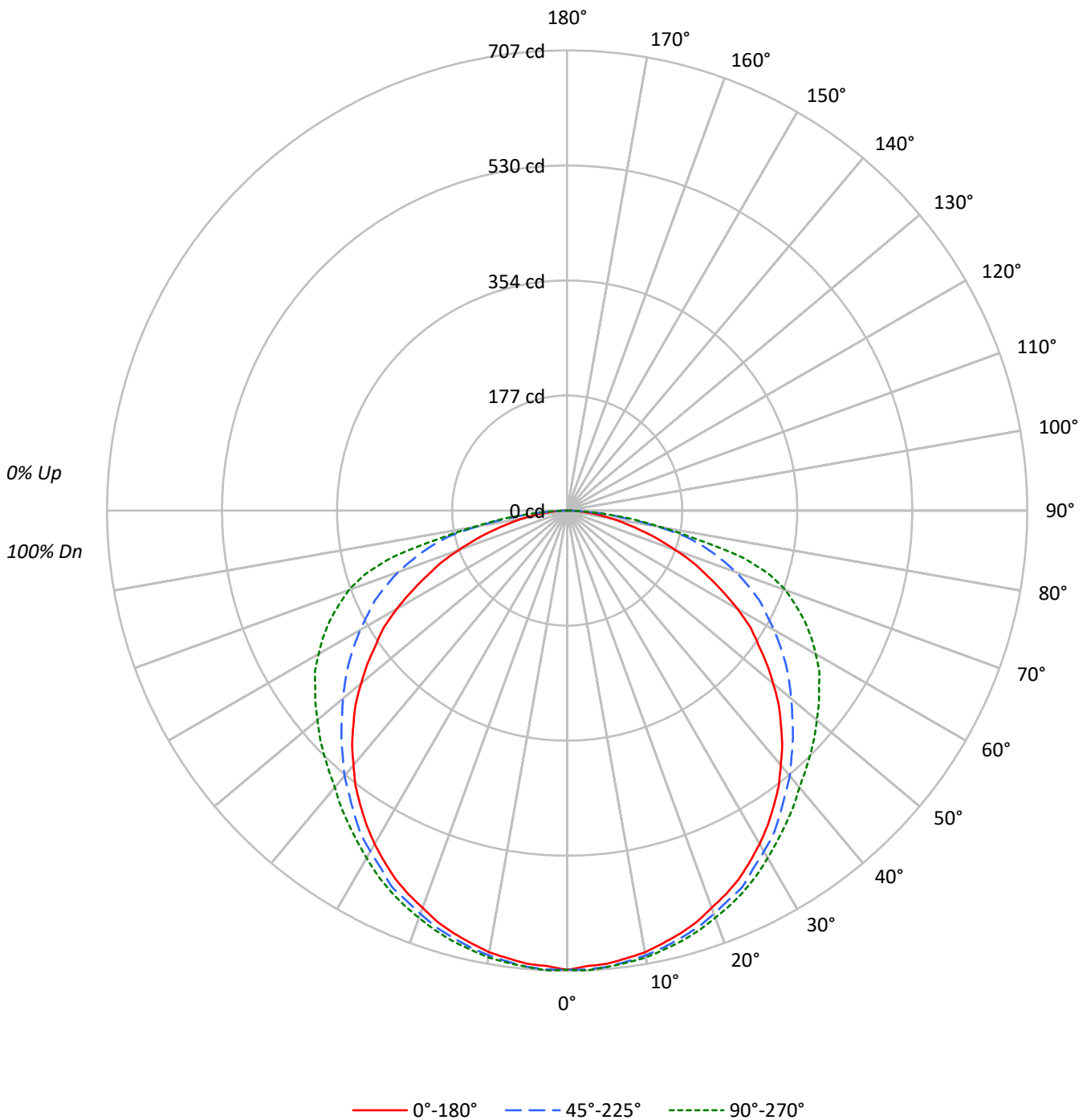
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1898	1898	1898
5°	1888	1901	1901
10°	1883	1896	1905
15°	1874	1892	1906
20°	1859	1888	1907
25°	1854	1894	1913
30°	1838	1879	1915
35°	1818	1872	1927
40°	1793	1869	1950
45°	1767	1867	2012
50°	1729	1881	2096
55°	1682	1923	2217
60°	1628	1974	2374
65°	1515	2073	2567
70°	1391	2171	2808
75°	1220	2284	2903
80°	1049	2176	2278
85°	917	1581	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.0
10°-20°	191.6	8.5
20°-30°	292.3	13.0
30°-40°	357.0	15.9
40°-50°	381.7	17.0
50°-60°	368.4	16.4
60°-70°	317.1	14.1
70°-80°	214.6	9.6
80°-90°	56.6	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°	550.7	24.5
0°-40°	907.7	40.4
0°-60°	1657.7	73.8
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	699	701	704	704	704	66
15°	672	674	679	682	684	190
25°	624	628	638	641	644	287
35°	554	558	570	582	586	346
45°	464	472	491	516	529	358
55°	358	370	410	451	472	321
65°	238	261	326	377	403	237
75°	117	155	220	264	279	126
85°	30	41	51	53	56	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.5	705.5	705.5	705.5	705.5
2.5°	700.6	702.2	705.5	705.5	707.2
5°	698.9	700.6	703.9	703.9	703.9
7.5°	693.9	695.6	698.9	700.6	700.6
10°	689.0	690.6	693.9	695.6	697.2
12.5°	680.7	682.4	687.3	690.6	690.6
15°	672.5	674.1	679.1	682.4	684.0
17.5°	662.5	665.9	670.8	674.1	675.8
20°	649.3	652.6	659.2	664.2	665.9
22.5°	637.8	641.1	647.7	652.6	655.9
25°	624.5	627.9	637.8	641.1	644.4
27.5°	608.0	611.3	619.6	626.2	631.2
30°	591.5	594.8	604.7	613.0	616.3
32.5°	573.3	578.3	589.9	596.5	601.4
35°	553.5	558.5	570.0	581.6	586.5
37.5°	533.7	538.6	550.2	565.1	571.7
40°	510.5	517.2	532.0	551.8	555.2
42.5°	489.1	497.3	510.5	533.7	541.9
45°	464.3	472.5	490.7	515.5	528.7
47.5°	441.1	449.4	469.2	499.0	515.5
50°	413.1	424.6	449.4	484.1	500.6
52.5°	386.6	396.5	429.6	467.6	487.4
55°	358.5	370.1	409.8	451.1	472.5
57.5°	333.8	343.7	388.3	434.5	459.3
60°	302.4	315.6	366.8	416.4	441.1
62.5°	269.3	289.1	345.3	396.5	423.0
65°	237.9	261.1	325.5	376.7	403.1
67.5°	209.8	234.6	300.7	355.2	380.0
70°	176.8	208.2	275.9	328.8	356.9
72.5°	147.0	181.7	247.8	300.7	325.5
75°	117.3	155.3	219.7	264.4	279.2
77.5°	90.9	127.2	188.4	201.6	203.2
80°	67.7	100.8	140.4	142.1	147.0
82.5°	46.3	71.0	90.9	99.1	100.8
85°	29.7	41.3	51.2	52.9	56.2
87.5°	13.2	14.9	18.2	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)