

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: P275881

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

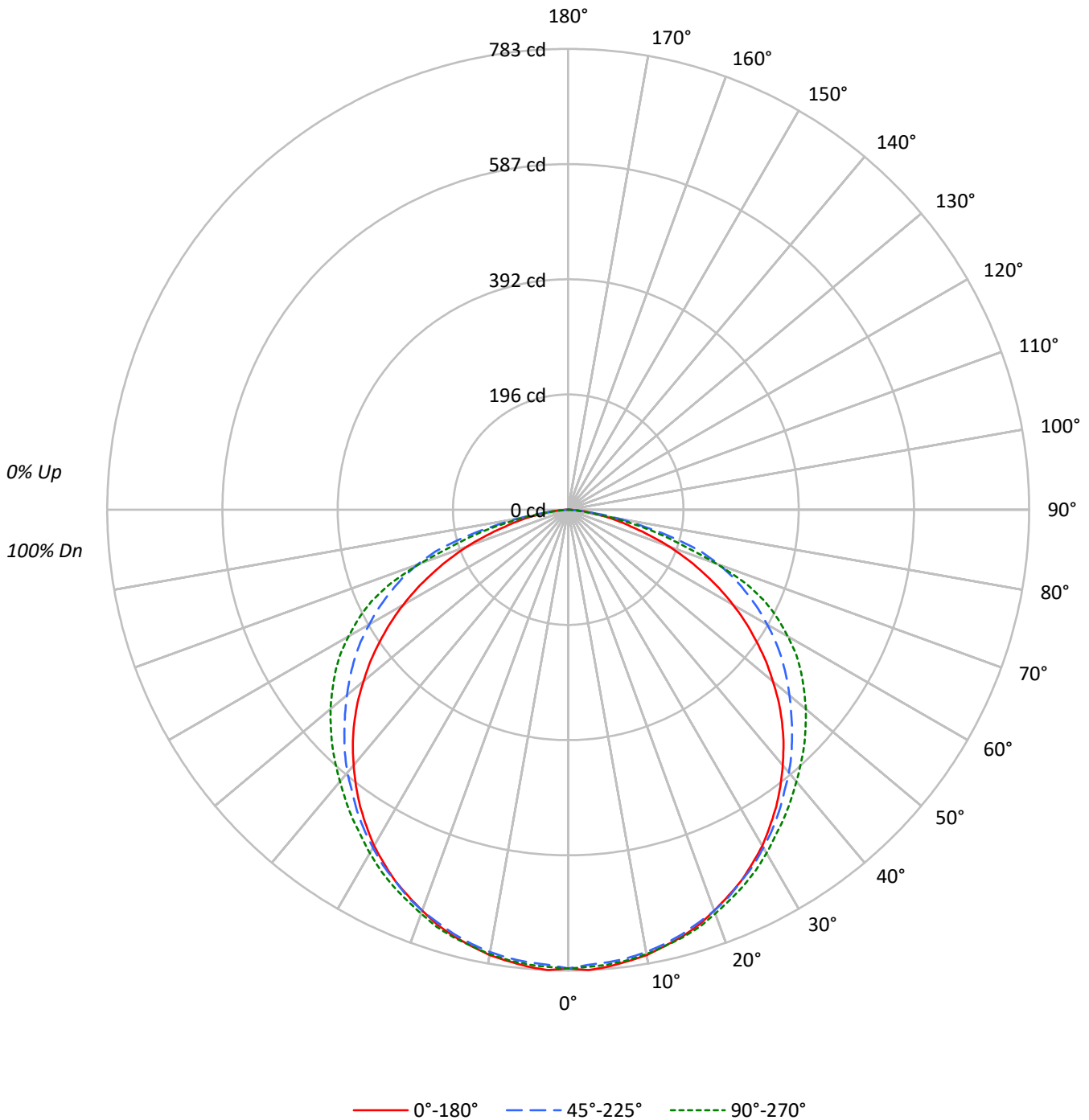
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2097	2097	2097
5°	2105	2086	2095
10°	2100	2085	2095
15°	2090	2080	2095
20°	2076	2076	2091
25°	2066	2066	2093
30°	2049	2060	2094
35°	2023	2053	2101
40°	1991	2049	2119
45°	1956	2046	2157
50°	1901	2053	2205
55°	1833	2080	2267
60°	1741	2102	2317
65°	1608	2129	2348
70°	1430	2144	2102
75°	1152	1927	1681
80°	900	1351	1099
85°	618	392	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.2
10°-20°	211.6	9.1
20°-30°	322.3	13.8
30°-40°	392.5	16.9
40°-50°	416.4	17.9
50°-60°	393.0	16.9
60°-70°	317.3	13.6
70°-80°	172.1	7.4
80°-90°	27.8	1.2
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°	607.7	26.1
0°-40°	1000.2	43.0
0°-60°	1809.7	77.8
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	779	778	772	778	776	74
15°	750	748	747	752	752	212
25°	696	694	696	703	705	320
35°	616	620	625	638	640	385
45°	514	521	538	558	567	396
55°	391	407	443	472	483	349
65°	252	283	334	362	369	250
75°	111	162	185	167	162	121
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.4	779.4	779.4	779.4	779.4
2.5°	783.0	779.4	773.9	779.4	777.6
5°	779.4	777.6	772.1	777.6	775.7
7.5°	773.9	773.9	768.5	772.1	772.1
10°	768.5	766.7	763.0	768.5	766.7
12.5°	759.4	757.6	755.8	761.2	759.4
15°	750.3	748.5	746.7	752.1	752.1
17.5°	739.4	737.6	735.8	743.0	743.0
20°	724.9	724.9	724.9	732.1	730.3
22.5°	710.3	710.3	712.2	719.4	717.6
25°	695.8	694.0	695.8	703.1	704.9
27.5°	677.6	679.5	681.3	688.5	690.4
30°	659.5	661.3	663.1	672.2	674.0
32.5°	637.7	641.3	644.9	655.8	655.8
35°	615.9	619.5	625.0	637.7	639.5
37.5°	592.2	595.9	603.2	617.7	621.3
40°	566.8	572.3	583.2	597.7	603.2
42.5°	541.4	548.6	561.4	577.7	585.0
45°	514.1	521.4	537.7	557.7	566.8
47.5°	485.1	494.1	514.1	539.6	546.8
50°	454.2	466.9	490.5	517.8	526.8
52.5°	423.3	437.8	466.9	496.0	505.0
55°	390.6	406.9	443.3	472.3	483.2
57.5°	357.9	376.1	417.8	448.7	459.6
60°	323.4	345.2	390.6	421.5	430.6
62.5°	288.9	314.3	363.3	394.2	401.5
65°	252.5	283.4	334.3	361.5	368.8
67.5°	218.0	254.3	305.2	325.2	325.2
70°	181.7	221.6	272.5	278.0	267.1
72.5°	145.3	190.8	236.2	216.2	207.1
75°	110.8	161.7	185.3	167.1	161.7
77.5°	83.6	130.8	130.8	119.9	116.3
80°	58.1	99.9	87.2	76.3	70.9
82.5°	38.2	56.3	45.4	36.3	30.9
85°	20.0	21.8	12.7	10.9	9.1
87.5°	7.3	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)