

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: P#

Luminaire Tested: **24CZ-LD5-55-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5726.4 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

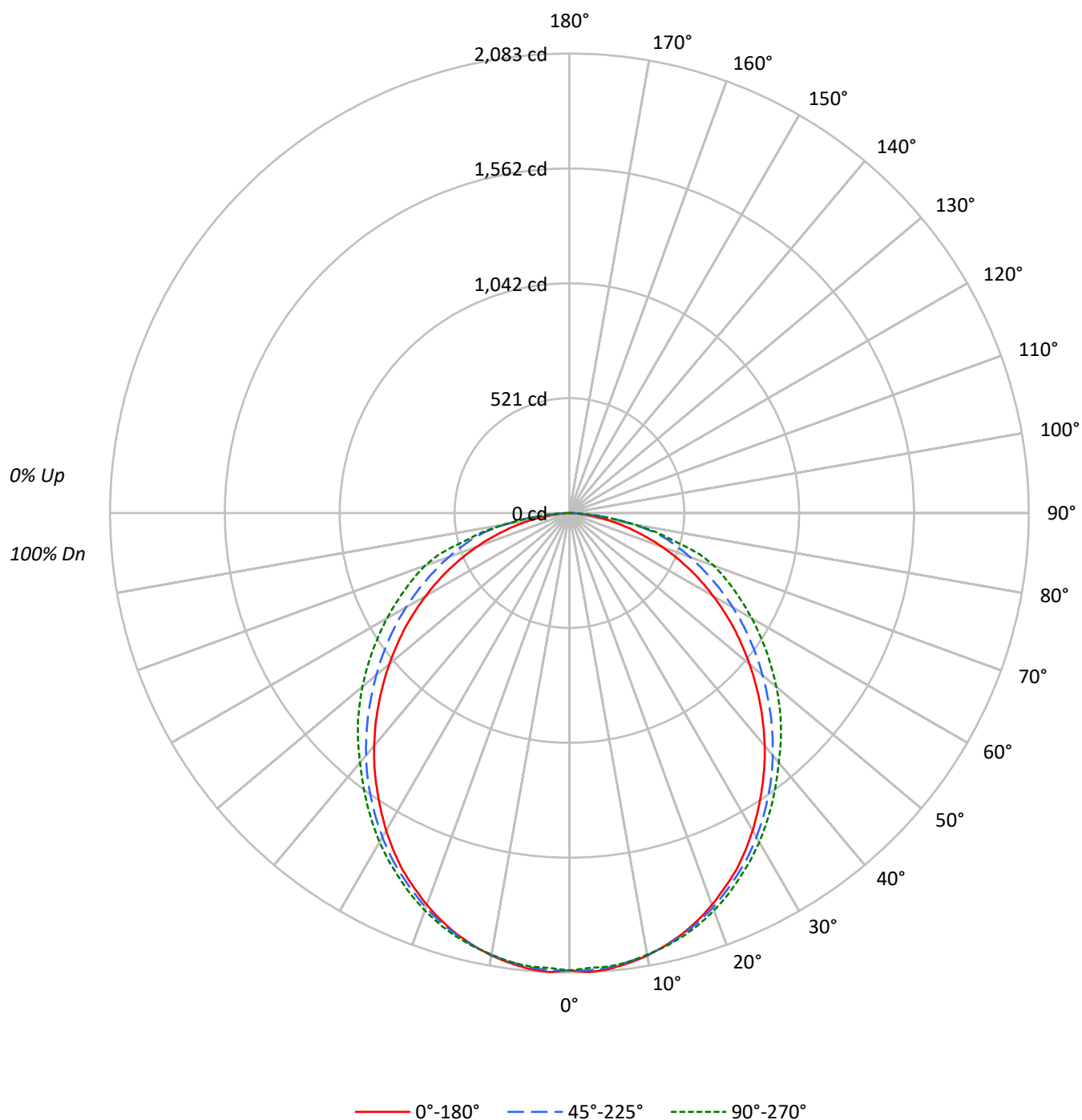
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
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	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2789	2789	2789
5°	2796	2779	2775
10°	2771	2754	2753
15°	2734	2719	2732
20°	2682	2674	2695
25°	2623	2617	2648
30°	2545	2556	2601
35°	2458	2486	2543
40°	2370	2413	2489
45°	2271	2331	2458
50°	2169	2251	2420
55°	2063	2177	2386
60°	1941	2108	2364
65°	1808	2042	2367
70°	1641	1995	2412
75°	1422	1976	2154
80°	1138	1725	1794
85°	755	1117	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	3.4
10°-20°	557.4	9.7
20°-30°	830.7	14.5
30°-40°	977.9	17.1
40°-50°	993.7	17.4
50°-60°	893.4	15.6
60°-70°	705.8	12.3
70°-80°	447.8	7.8
80°-90°	123.6	2.2
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°	1584.1	27.7
0°-40°	2562.0	44.7
0°-60°	4449.1	77.7
0°-90°	5726.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5726.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2075	2058	2067	2064	2064	197
15°	1976	1966	1980	1985	1987	557
25°	1787	1785	1806	1818	1825	822
35°	1522	1532	1570	1587	1602	952
45°	1223	1240	1290	1328	1357	944
55°	911	934	998	1063	1090	813
65°	598	629	714	793	823	593
75°	299	351	455	495	492	318
85°	63	109	116	107	107	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.0	2073.0	2073.0	2073.0	2073.0
2.5°	2082.6	2067.3	2075.0	2071.1	2063.5
5°	2075.0	2057.8	2067.3	2063.5	2063.5
7.5°	2057.8	2044.5	2052.1	2050.2	2052.1
10°	2036.8	2023.5	2034.9	2034.9	2033.0
12.5°	2008.3	1996.8	2010.2	2010.2	2012.1
15°	1975.9	1966.3	1979.7	1985.4	1987.3
17.5°	1935.9	1926.3	1943.5	1949.2	1954.9
20°	1890.1	1886.3	1903.5	1909.2	1916.8
22.5°	1838.7	1838.7	1855.8	1863.5	1874.9
25°	1787.2	1785.3	1806.3	1817.7	1825.3
27.5°	1726.3	1728.2	1754.9	1766.3	1775.8
30°	1661.5	1665.3	1695.8	1709.1	1722.5
32.5°	1592.9	1600.5	1634.8	1650.1	1663.4
35°	1522.4	1531.9	1570.0	1587.2	1602.4
37.5°	1451.9	1465.2	1505.2	1522.4	1539.5
40°	1377.6	1389.0	1434.7	1455.7	1476.7
42.5°	1301.4	1316.6	1362.3	1392.8	1417.6
45°	1223.3	1240.4	1289.9	1328.0	1356.6
47.5°	1145.1	1168.0	1215.6	1267.1	1291.8
50°	1067.0	1089.9	1143.2	1200.4	1225.2
52.5°	987.0	1009.8	1070.8	1129.9	1156.6
55°	910.8	933.6	998.4	1063.2	1089.9
57.5°	830.7	855.5	927.9	994.6	1021.3
60°	752.6	777.4	855.5	926.0	954.6
62.5°	676.4	703.1	785.0	859.3	887.9
65°	598.3	628.8	714.5	792.6	823.1
67.5°	522.1	556.4	645.9	727.9	760.2
70°	445.9	485.9	581.1	665.0	697.4
72.5°	371.5	415.4	516.4	600.2	617.3
75°	299.1	350.6	455.4	495.4	491.6
77.5°	230.6	287.7	386.8	394.4	405.8
80°	167.7	230.6	289.6	304.9	297.2
82.5°	110.5	173.4	207.7	200.1	198.2
85°	62.9	108.6	116.2	106.7	106.7
87.5°	26.7	43.8	38.1	28.6	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)