

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-LD5-55SE-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55SE-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5651.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

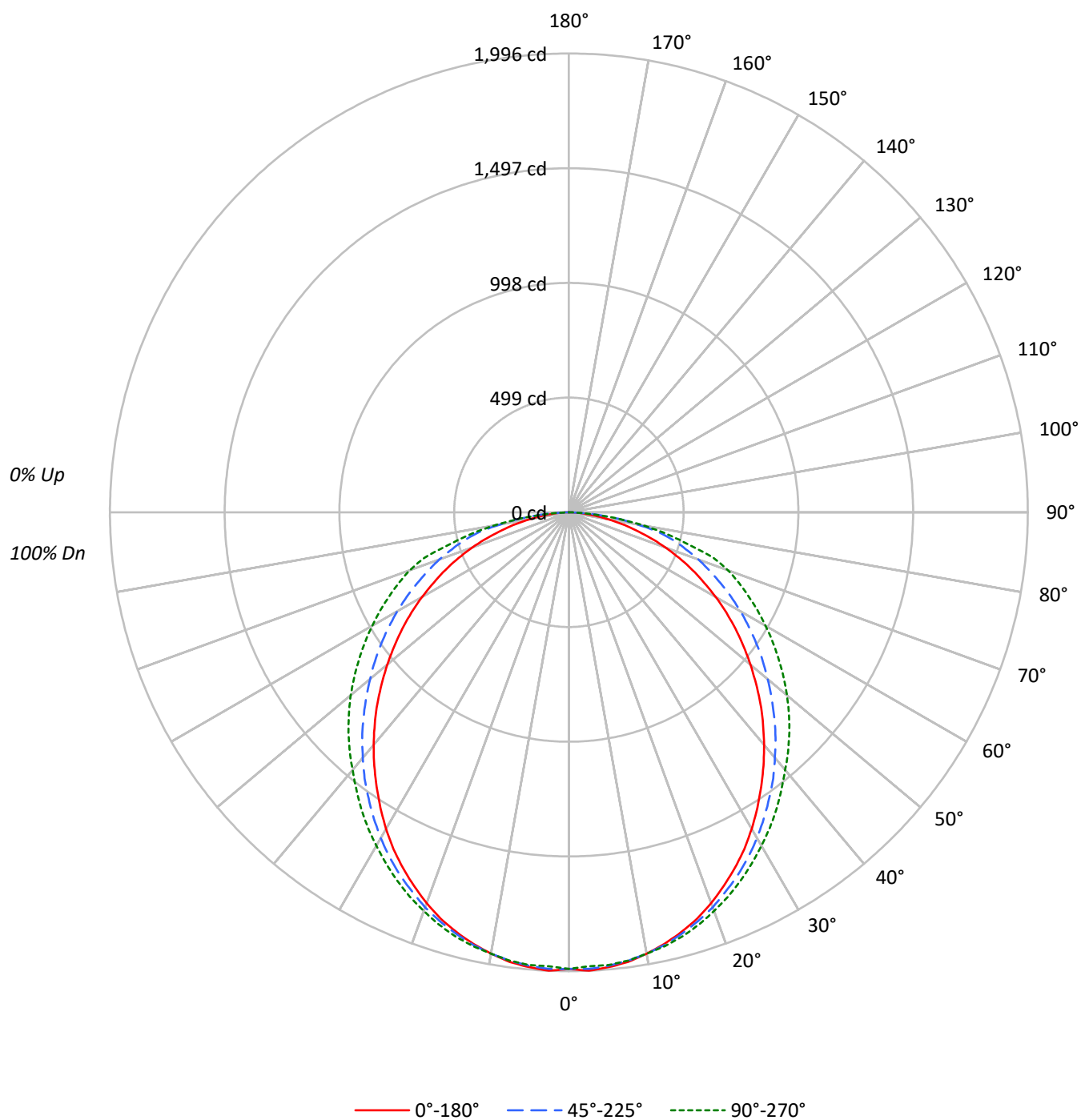
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2672	2672	2672
5°	2677	2662	2658
10°	2652	2639	2640
15°	2615	2606	2624
20°	2567	2568	2596
25°	2505	2521	2563
30°	2435	2467	2529
35°	2353	2406	2499
40°	2272	2344	2466
45°	2188	2283	2456
50°	2095	2222	2446
55°	2003	2172	2437
60°	1904	2123	2447
65°	1789	2078	2477
70°	1642	2053	2547
75°	1436	2044	2342
80°	1174	1798	1985
85°	808	1164	1134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	3.3
10°-20°	534.6	9.5
20°-30°	799.1	14.1
30°-40°	947.6	16.8
40°-50°	974.5	17.2
50°-60°	891.4	15.8
60°-70°	718.9	12.7
70°-80°	466.7	8.3
80°-90°	131.3	2.3
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°	1521.5	26.9
0°-40°	2469.0	43.7
0°-60°	4334.9	76.7
0°-90°	5651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1986	1973	1980	1976	1976	188
15°	1890	1880	1898	1905	1909	533
25°	1707	1707	1740	1754	1767	786
35°	1457	1471	1519	1550	1575	912
45°	1179	1200	1263	1321	1356	908
55°	884	913	996	1075	1113	791
65°	592	627	727	821	861	585
75°	302	358	471	529	534	322
85°	67	112	121	119	115	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1986.1	1986.1	1986.1	1986.1	1986.1
2.5°	1995.7	1980.3	1988.0	1984.2	1976.5
5°	1986.1	1972.6	1980.3	1976.5	1976.5
7.5°	1972.6	1959.2	1966.9	1966.9	1966.9
10°	1949.6	1938.0	1949.6	1949.6	1949.6
12.5°	1922.7	1913.0	1926.5	1928.4	1932.3
15°	1890.0	1880.4	1897.7	1905.4	1909.2
17.5°	1853.4	1845.8	1865.0	1874.6	1880.4
20°	1809.2	1803.5	1828.4	1838.1	1845.8
22.5°	1759.2	1759.2	1784.2	1795.8	1809.2
25°	1707.3	1707.3	1740.0	1753.5	1766.9
27.5°	1651.6	1653.5	1690.0	1709.2	1722.7
30°	1590.0	1597.7	1636.2	1659.3	1674.6
32.5°	1524.7	1534.3	1578.5	1607.3	1626.6
35°	1457.4	1470.8	1518.9	1549.7	1574.7
37.5°	1390.1	1407.4	1459.3	1493.9	1518.9
40°	1320.9	1340.1	1393.9	1434.3	1463.1
42.5°	1249.7	1270.9	1330.5	1376.6	1411.2
45°	1178.6	1199.7	1263.2	1320.9	1355.5
47.5°	1103.6	1128.6	1195.9	1263.2	1297.8
50°	1030.5	1057.5	1128.6	1201.7	1238.2
52.5°	957.5	988.2	1063.2	1140.1	1176.7
55°	884.4	913.3	995.9	1074.8	1113.2
57.5°	811.4	842.1	928.6	1011.3	1051.7
60°	738.3	771.0	861.4	947.9	988.2
62.5°	663.3	697.9	794.1	884.4	924.8
65°	592.2	626.8	726.8	821.0	861.4
67.5°	519.1	557.6	661.4	757.5	799.8
70°	446.1	488.4	597.9	694.1	736.4
72.5°	373.0	421.1	532.6	628.7	659.5
75°	301.9	357.6	471.1	528.7	534.5
77.5°	236.5	294.2	401.8	424.9	436.4
80°	173.0	236.5	301.9	330.7	328.8
82.5°	115.4	180.7	217.3	221.1	217.3
85°	67.3	111.5	121.1	119.2	115.4
87.5°	28.8	44.2	38.5	32.7	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)