

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-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-LD5-55-UNV-L840-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

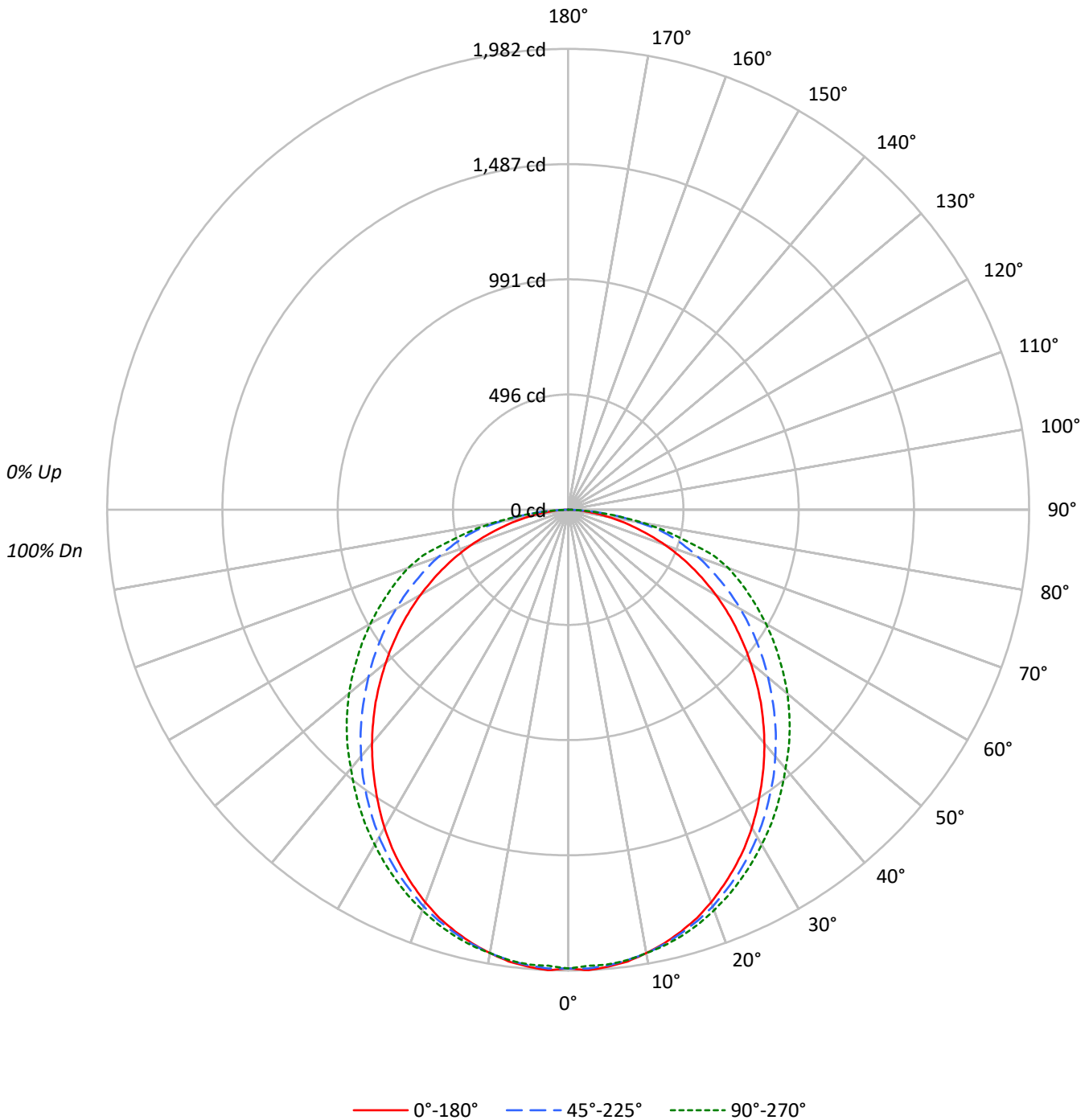
Lumens per Lamp: N/A  
Luminaire Lumens: 5614.1 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 45.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2654	2654	2654
5°	2659	2645	2640
10°	2634	2621	2623
15°	2598	2589	2607
20°	2550	2551	2578
25°	2489	2504	2546
30°	2419	2450	2512
35°	2337	2390	2482
40°	2257	2328	2450
45°	2173	2267	2440
50°	2081	2207	2430
55°	1990	2157	2421
60°	1892	2109	2431
65°	1777	2064	2460
70°	1631	2040	2530
75°	1426	2031	2326
80°	1167	1786	1972
85°	802	1156	1126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	3.3
10°-20°	531.0	9.5
20°-30°	793.8	14.1
30°-40°	941.2	16.8
40°-50°	967.9	17.2
50°-60°	885.4	15.8
60°-70°	714.1	12.7
70°-80°	463.6	8.3
80°-90°	130.5	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°	1511.3	26.9
0°-40°	2452.6	43.7
0°-60°	4305.9	76.7
0°-90°	5614.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5614.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1973	1960	1967	1963	1963	187
15°	1877	1868	1885	1893	1896	529
25°	1696	1696	1728	1742	1755	781
35°	1448	1461	1509	1539	1564	906
45°	1171	1192	1255	1312	1346	902
55°	878	907	989	1068	1106	786
65°	588	623	722	816	856	582
75°	300	355	468	525	531	320
85°	67	111	120	118	115	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1972.8	1972.8	1972.8	1972.8	1972.8
2.5°	1982.4	1967.1	1974.8	1970.9	1963.3
5°	1972.8	1959.5	1967.1	1963.3	1963.3
7.5°	1959.5	1946.1	1953.7	1953.7	1953.7
10°	1936.6	1925.1	1936.6	1936.6	1936.6
12.5°	1909.8	1900.3	1913.6	1915.5	1919.4
15°	1877.4	1867.8	1885.0	1892.6	1896.4
17.5°	1841.1	1833.4	1852.5	1862.1	1867.8
20°	1797.1	1791.4	1816.2	1825.8	1833.4
22.5°	1747.5	1747.5	1772.3	1783.8	1797.1
25°	1695.9	1695.9	1728.4	1741.8	1755.1
27.5°	1640.5	1642.4	1678.7	1697.8	1711.2
30°	1579.4	1587.1	1625.3	1648.2	1663.5
32.5°	1514.5	1524.0	1568.0	1596.6	1615.7
35°	1447.6	1461.0	1508.8	1539.3	1564.1
37.5°	1380.8	1398.0	1449.6	1483.9	1508.8
40°	1312.0	1331.1	1384.6	1424.7	1453.4
42.5°	1241.4	1262.4	1321.6	1367.4	1401.8
45°	1170.7	1191.7	1254.8	1312.0	1346.4
47.5°	1096.2	1121.1	1187.9	1254.8	1289.1
50°	1023.7	1050.4	1121.1	1193.6	1229.9
52.5°	951.1	981.6	1056.1	1132.5	1168.8
55°	878.5	907.2	989.3	1067.6	1105.8
57.5°	805.9	836.5	922.4	1004.6	1044.7
60°	733.4	765.8	855.6	941.5	981.6
62.5°	658.9	693.3	788.8	878.5	918.6
65°	588.2	622.6	721.9	815.5	855.6
67.5°	515.7	553.8	657.0	752.5	794.5
70°	443.1	485.1	594.0	689.4	731.5
72.5°	370.5	418.3	529.0	624.5	655.1
75°	299.8	355.2	467.9	525.2	530.9
77.5°	234.9	292.2	399.2	422.1	433.5
80°	171.9	234.9	299.8	328.5	326.6
82.5°	114.6	179.5	215.8	219.6	215.8
85°	66.8	110.8	120.3	118.4	114.6
87.5°	28.6	43.9	38.2	32.5	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)