

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-L850-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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6194.3 lumens
Efficiency: N/A
Efficacy: 135.2 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

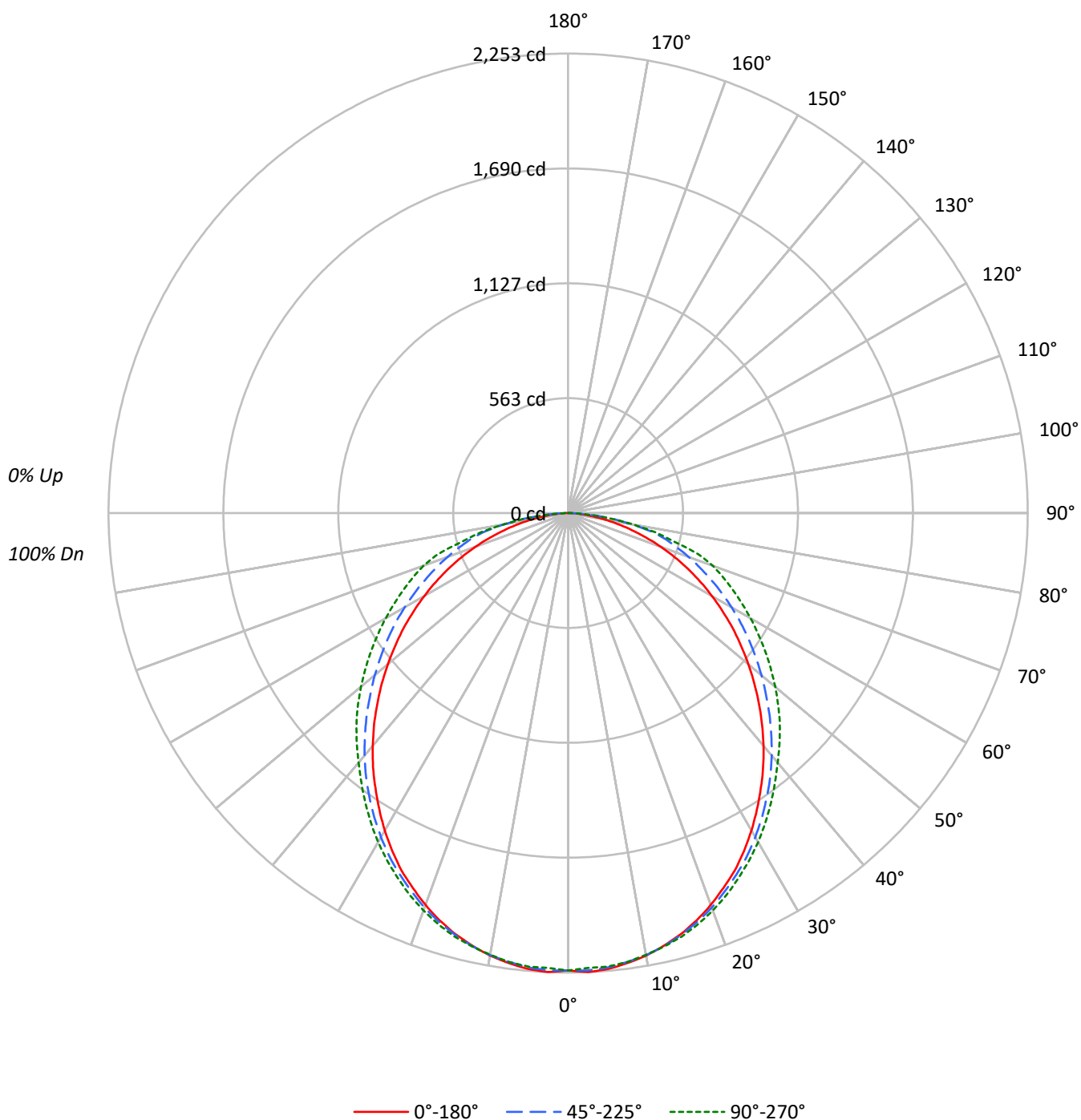
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3017	3017	3017
5°	3025	3006	3002
10°	2997	2980	2978
15°	2957	2941	2955
20°	2901	2892	2916
25°	2837	2831	2865
30°	2752	2765	2814
35°	2658	2690	2751
40°	2563	2610	2693
45°	2456	2521	2659
50°	2346	2435	2618
55°	2231	2355	2581
60°	2100	2281	2557
65°	1956	2209	2560
70°	1775	2158	2609
75°	1539	2138	2330
80°	1231	1866	1941
85°	816	1208	1134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	3.4
10°-20°	603.0	9.7
20°-30°	898.6	14.5
30°-40°	1057.8	17.1
40°-50°	1074.9	17.4
50°-60°	966.4	15.6
60°-70°	763.5	12.3
70°-80°	484.4	7.8
80°-90°	133.7	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°	1713.6	27.7
0°-40°	2771.3	44.7
0°-60°	4812.7	77.7
0°-90°	6194.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6194.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2244	2226	2236	2232	2232	213
15°	2137	2127	2141	2148	2150	602
25°	1933	1931	1954	1966	1974	889
35°	1647	1657	1698	1717	1733	1030
45°	1323	1342	1395	1437	1468	1021
55°	985	1010	1080	1150	1179	880
65°	647	680	773	857	890	641
75°	324	379	493	536	532	344
85°	68	118	126	115	115	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2242.4	2242.4	2242.4	2242.4	2242.4
2.5°	2252.7	2236.3	2244.5	2240.4	2232.1
5°	2244.5	2225.9	2236.3	2232.1	2232.1
7.5°	2225.9	2211.5	2219.8	2217.7	2219.8
10°	2203.3	2188.8	2201.2	2201.2	2199.2
12.5°	2172.4	2160.0	2174.4	2174.4	2176.5
15°	2137.3	2127.0	2141.4	2147.6	2149.7
17.5°	2094.0	2083.7	2102.3	2108.5	2114.6
20°	2044.6	2040.5	2059.0	2065.2	2073.4
22.5°	1988.9	1988.9	2007.5	2015.7	2028.1
25°	1933.3	1931.2	1953.9	1966.3	1974.5
27.5°	1867.3	1869.4	1898.2	1910.6	1920.9
30°	1797.2	1801.4	1834.3	1848.8	1863.2
32.5°	1723.0	1731.3	1768.4	1784.9	1799.3
35°	1646.8	1657.1	1698.3	1716.9	1733.4
37.5°	1570.5	1585.0	1628.2	1646.8	1665.3
40°	1490.1	1502.5	1552.0	1574.7	1597.3
42.5°	1407.7	1424.2	1473.7	1506.6	1533.4
45°	1323.2	1341.8	1395.3	1436.6	1467.5
47.5°	1238.7	1263.4	1315.0	1370.6	1397.4
50°	1154.2	1178.9	1236.6	1298.5	1325.3
52.5°	1067.6	1092.4	1158.3	1222.2	1251.1
55°	985.2	1009.9	1080.0	1150.1	1178.9
57.5°	898.6	925.4	1003.7	1075.9	1104.7
60°	814.1	840.9	925.4	1001.7	1032.6
62.5°	731.7	760.5	849.2	929.5	960.5
65°	647.2	680.2	772.9	857.4	890.4
67.5°	564.7	601.8	698.7	787.3	822.4
70°	482.3	525.6	628.6	719.3	754.3
72.5°	401.9	449.3	558.5	649.2	667.8
75°	323.6	379.2	492.6	535.9	531.8
77.5°	249.4	311.2	418.4	426.6	439.0
80°	181.4	249.4	313.3	329.8	321.5
82.5°	119.5	187.6	224.7	216.4	214.4
85°	68.0	117.5	125.7	115.4	115.4
87.5°	28.9	47.4	41.2	30.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)