

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: P260915

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6618.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

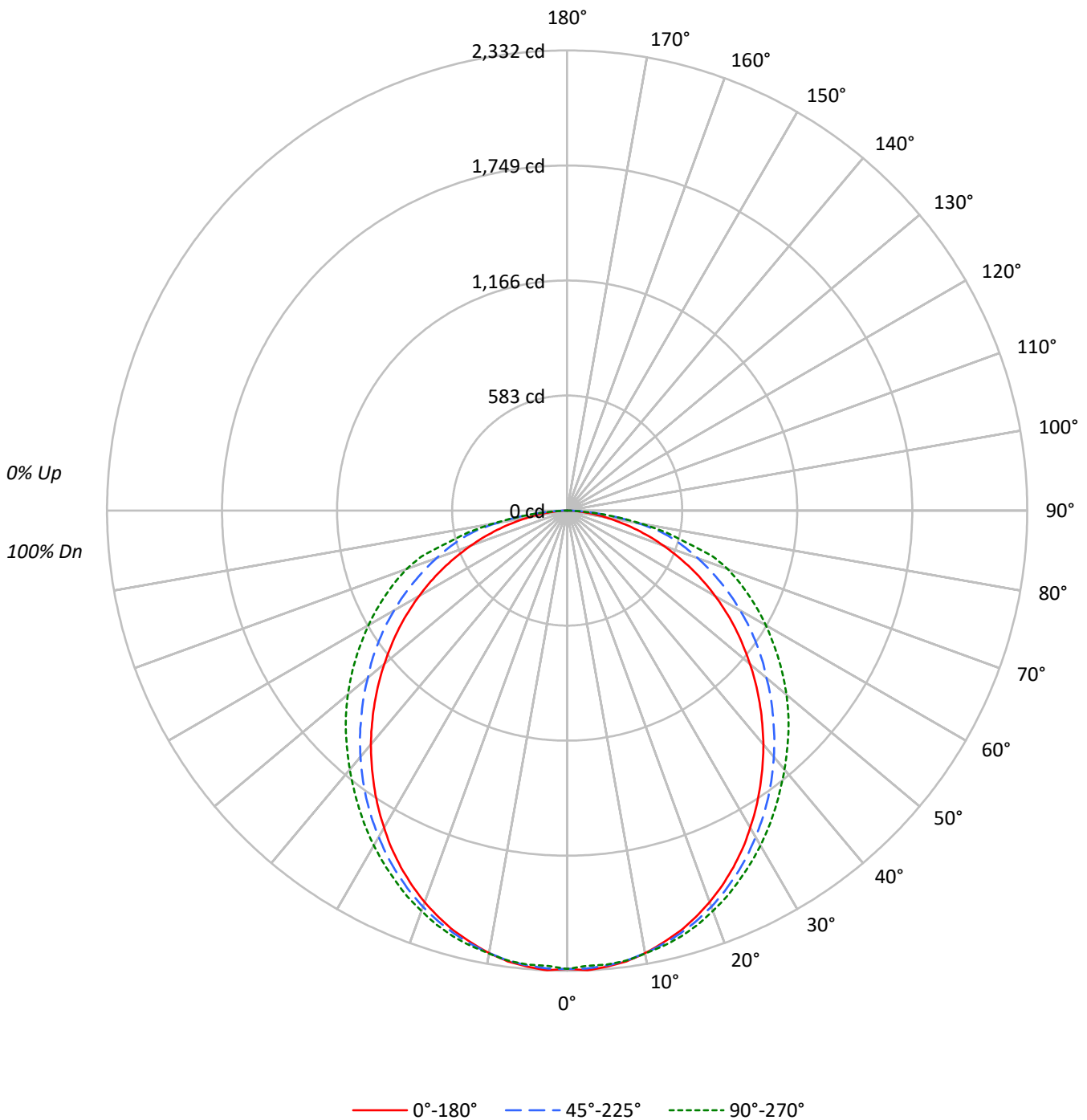
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3125	3125	3125
5°	3134	3125	3119
10°	3111	3111	3114
15°	3074	3090	3112
20°	3024	3060	3092
25°	2960	3017	3068
30°	2883	2968	3045
35°	2803	2918	3022
40°	2718	2862	3009
45°	2626	2807	3018
50°	2533	2761	3036
55°	2440	2743	3067
60°	2329	2726	3128
65°	2208	2727	3232
70°	2041	2772	3405
75°	1826	2898	3239
80°	1527	2774	2967
85°	1155	2133	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	3.3
10°-20°	624.7	9.4
20°-30°	933.8	14.1
30°-40°	1107.8	16.7
40°-50°	1140.2	17.2
50°-60°	1046.0	15.8
60°-70°	845.7	12.8
70°-80°	548.9	8.3
80°-90°	151.3	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°	1778.0	26.9
0°-40°	2885.8	43.6
0°-60°	5072.0	76.6
0°-90°	6618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2320	2304	2314	2311	2309	220
15°	2207	2198	2218	2227	2234	622
25°	1994	1996	2032	2051	2066	918
35°	1706	1720	1776	1815	1840	1067
45°	1380	1403	1475	1545	1586	1065
55°	1040	1072	1169	1264	1307	929
65°	693	734	856	970	1015	685
75°	351	417	557	623	623	373
85°	75	127	138	134	131	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.6	2322.6	2322.6	2322.6	2322.6
2.5°	2331.6	2313.5	2322.6	2320.3	2309.0
5°	2320.3	2304.4	2313.5	2311.2	2309.0
7.5°	2304.4	2288.6	2299.9	2297.6	2299.9
10°	2277.3	2263.7	2277.3	2279.5	2279.5
12.5°	2243.3	2231.9	2250.1	2254.6	2259.1
15°	2207.0	2197.9	2218.3	2227.4	2234.2
17.5°	2161.7	2154.9	2179.8	2191.2	2200.2
20°	2111.8	2109.6	2136.8	2148.1	2159.4
22.5°	2055.2	2055.2	2086.9	2100.5	2116.4
25°	1994.0	1996.3	2032.5	2050.7	2066.5
27.5°	1928.3	1930.6	1973.6	1996.3	2014.4
30°	1855.8	1864.9	1910.2	1939.6	1960.0
32.5°	1783.3	1794.6	1844.5	1878.5	1901.1
35°	1706.2	1719.8	1776.5	1815.0	1839.9
37.5°	1626.9	1642.8	1704.0	1747.0	1776.5
40°	1547.6	1565.8	1629.2	1679.1	1713.0
42.5°	1463.8	1484.2	1554.4	1613.3	1649.6
45°	1379.9	1402.6	1475.1	1545.4	1586.1
47.5°	1296.1	1323.3	1400.3	1477.4	1520.4
50°	1210.0	1237.2	1318.8	1407.1	1450.2
52.5°	1123.9	1155.6	1246.3	1336.9	1379.9
55°	1040.1	1071.8	1169.2	1264.4	1307.4
57.5°	954.0	985.7	1092.2	1191.9	1234.9
60°	865.6	901.8	1012.9	1114.8	1162.4
62.5°	779.5	818.0	935.8	1044.6	1089.9
65°	693.4	734.2	856.5	969.8	1015.1
67.5°	605.0	652.6	779.5	895.0	942.6
70°	518.9	571.0	704.7	820.3	865.6
72.5°	435.1	491.7	629.9	747.8	774.9
75°	351.2	416.9	557.4	623.1	623.1
77.5°	271.9	344.4	475.8	500.8	514.4
80°	197.1	276.4	358.0	387.5	382.9
82.5°	131.4	210.7	256.0	256.0	249.3
85°	74.8	126.9	138.2	133.7	131.4
87.5°	31.7	47.6	43.1	34.0	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)