

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: P261195

Luminaire Tested: **24CZ-LD5-70-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261195
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-LD5-70-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6790.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

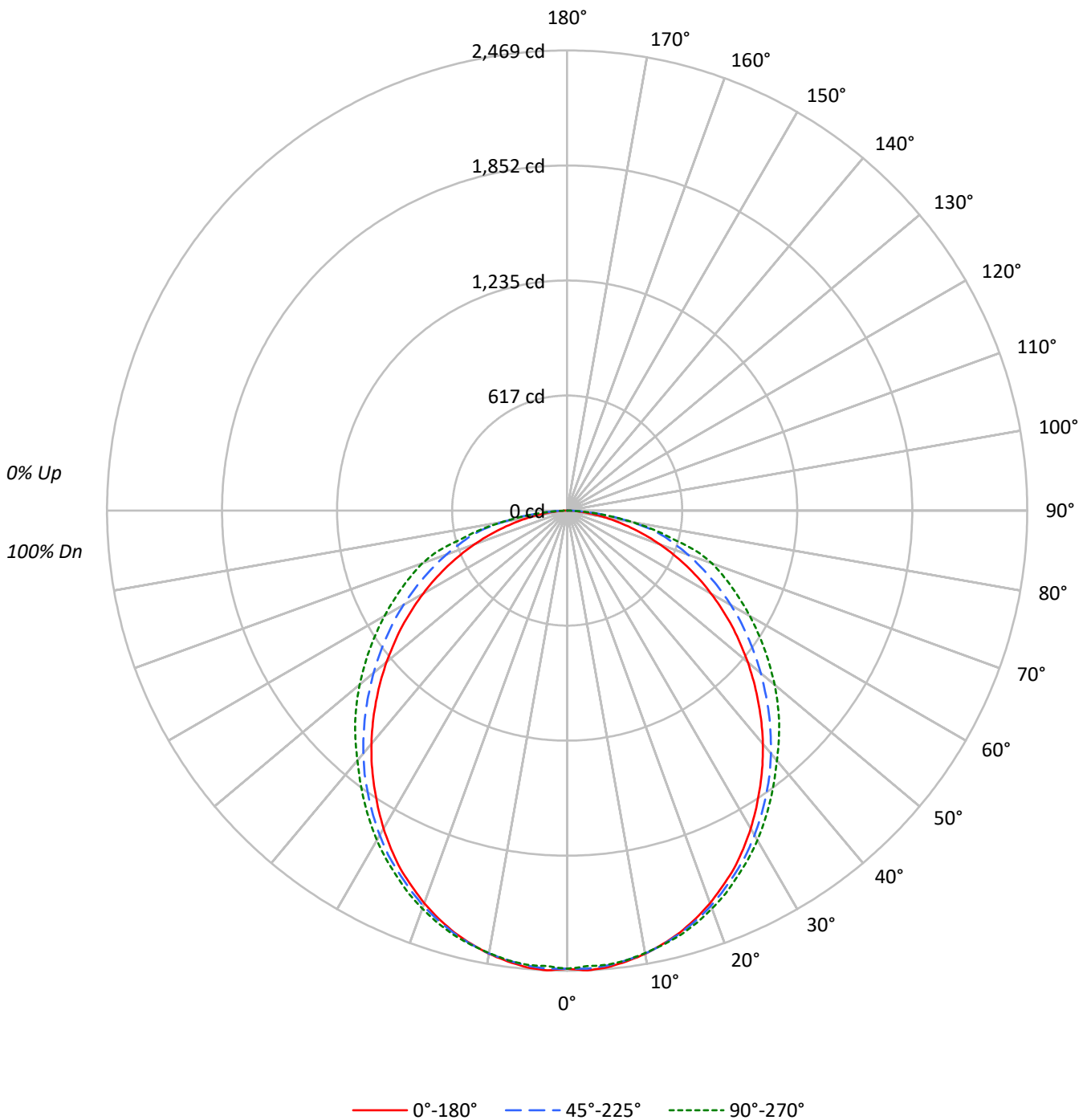
Input Watts (W): 53.289
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3307	3307	3307
5°	3323	3311	3305
10°	3300	3297	3294
15°	3264	3270	3282
20°	3209	3232	3254
25°	3146	3180	3213
30°	3061	3124	3173
35°	2965	3058	3121
40°	2869	2988	3075
45°	2760	2910	3061
50°	2648	2838	3041
55°	2533	2777	3031
60°	2401	2730	3046
65°	2259	2697	3107
70°	2080	2711	3253
75°	1844	2807	3030
80°	1540	2661	2731
85°	1152	2127	1953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.4
10°-20°	661.0	9.7
20°-30°	985.0	14.5
30°-40°	1159.5	17.1
40°-50°	1178.3	17.4
50°-60°	1059.4	15.6
60°-70°	836.9	12.3
70°-80°	531.0	7.8
80°-90°	146.5	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°	1878.4	27.7
0°-40°	3037.9	44.7
0°-60°	5275.6	77.7
0°-90°	6790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2460	2440	2451	2447	2447	233
15°	2343	2332	2347	2354	2356	660
25°	2119	2117	2142	2155	2164	974
35°	1805	1816	1862	1882	1900	1129
45°	1450	1471	1530	1575	1609	1119
55°	1080	1107	1184	1261	1292	964
65°	709	746	847	940	976	703
75°	355	416	540	587	583	378
85°	75	129	138	126	126	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2458.1	2458.1	2458.1	2458.1	2458.1
2.5°	2469.4	2451.3	2460.4	2455.8	2446.8
5°	2460.4	2440.0	2451.3	2446.8	2446.8
7.5°	2440.0	2424.2	2433.3	2431.0	2433.3
10°	2415.2	2399.4	2412.9	2412.9	2410.7
12.5°	2381.3	2367.7	2383.5	2383.5	2385.8
15°	2342.9	2331.6	2347.4	2354.2	2356.4
17.5°	2295.4	2284.1	2304.5	2311.3	2318.0
20°	2241.2	2236.7	2257.0	2263.8	2272.8
22.5°	2180.2	2180.2	2200.5	2209.6	2223.1
25°	2119.2	2117.0	2141.8	2155.4	2164.4
27.5°	2046.9	2049.2	2080.8	2094.4	2105.7
30°	1970.1	1974.6	2010.8	2026.6	2042.4
32.5°	1888.8	1897.8	1938.5	1956.5	1972.4
35°	1805.2	1816.5	1861.7	1882.0	1900.1
37.5°	1721.6	1737.4	1784.8	1805.2	1825.5
40°	1633.5	1647.0	1701.2	1726.1	1750.9
42.5°	1543.1	1561.2	1615.4	1651.5	1680.9
45°	1450.5	1470.8	1529.5	1574.7	1608.6
47.5°	1357.8	1384.9	1441.4	1502.4	1531.8
50°	1265.2	1292.3	1355.6	1423.4	1452.7
52.5°	1170.3	1197.4	1269.7	1339.8	1371.4
55°	1079.9	1107.1	1183.9	1260.7	1292.3
57.5°	985.0	1014.4	1100.3	1179.3	1211.0
60°	892.4	921.8	1014.4	1098.0	1131.9
62.5°	802.0	833.7	930.8	1018.9	1052.8
65°	709.4	745.6	847.2	939.9	976.0
67.5°	619.0	659.7	765.9	863.0	901.5
70°	528.7	576.1	689.1	788.5	826.9
72.5°	440.6	492.5	612.3	711.7	732.0
75°	354.7	415.7	540.0	587.4	582.9
77.5°	273.4	341.2	458.6	467.7	481.2
80°	198.8	273.4	343.4	361.5	352.4
82.5°	131.0	205.6	246.3	237.2	235.0
85°	74.6	128.8	137.8	126.5	126.5
87.5°	31.6	52.0	45.2	33.9	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)