

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: P261334

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261334
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6648.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

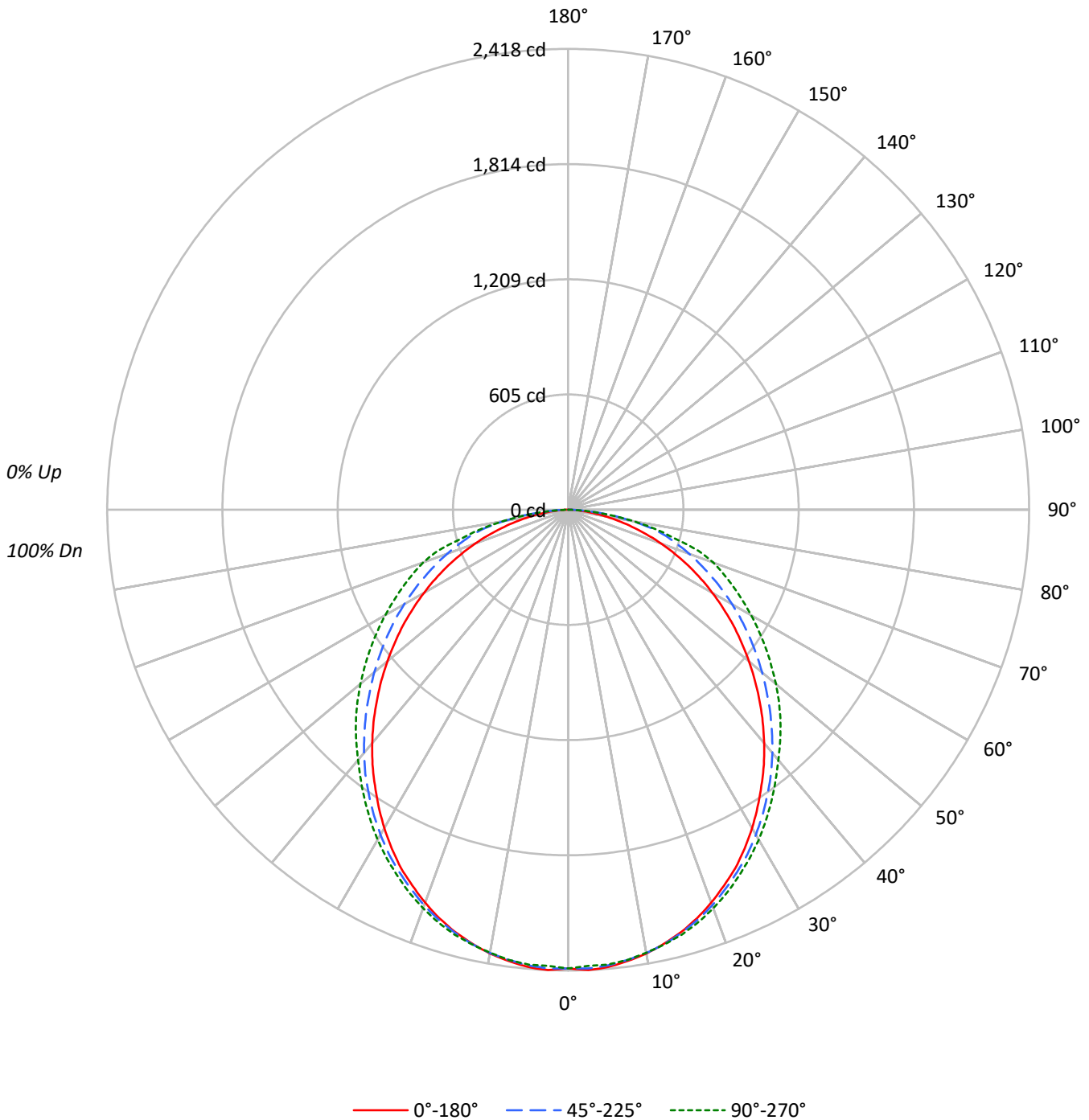
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3238	3238	3238
5°	3254	3242	3236
10°	3231	3228	3225
15°	3195	3201	3214
20°	3142	3164	3186
25°	3080	3113	3146
30°	2997	3059	3107
35°	2903	2994	3056
40°	2809	2926	3011
45°	2702	2850	2997
50°	2593	2778	2977
55°	2480	2719	2968
60°	2351	2673	2982
65°	2211	2641	3042
70°	2036	2654	3185
75°	1805	2748	2967
80°	1509	2605	2674
85°	1127	2083	1913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	3.4
10°-20°	647.1	9.7
20°-30°	964.4	14.5
30°-40°	1135.3	17.1
40°-50°	1153.7	17.4
50°-60°	1037.2	15.6
60°-70°	819.4	12.3
70°-80°	519.9	7.8
80°-90°	143.5	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°	1839.1	27.7
0°-40°	2974.3	44.7
0°-60°	5165.2	77.7
0°-90°	6648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2409	2389	2400	2396	2396	228
15°	2294	2283	2298	2305	2307	646
25°	2075	2073	2097	2110	2119	954
35°	1767	1778	1823	1843	1860	1106
45°	1420	1440	1498	1542	1575	1096
55°	1057	1084	1159	1234	1265	944
65°	695	730	830	920	956	688
75°	347	407	529	575	571	370
85°	73	126	135	124	124	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2417.8	2400.1	2408.9	2404.5	2395.6
5°	2408.9	2389.0	2400.1	2395.6	2395.6
7.5°	2389.0	2373.5	2382.4	2380.2	2382.4
10°	2364.7	2349.2	2362.5	2362.5	2360.2
12.5°	2331.5	2318.2	2333.7	2333.7	2335.9
15°	2293.9	2282.8	2298.3	2304.9	2307.2
17.5°	2247.4	2236.4	2256.3	2262.9	2269.6
20°	2194.3	2189.9	2209.8	2216.5	2225.3
22.5°	2134.6	2134.6	2154.5	2163.4	2176.6
25°	2074.9	2072.7	2097.0	2110.3	2119.1
27.5°	2004.1	2006.3	2037.3	2050.6	2061.6
30°	1928.9	1933.3	1968.7	1984.2	1999.7
32.5°	1849.3	1858.1	1897.9	1915.6	1931.1
35°	1767.4	1778.5	1822.7	1842.6	1860.3
37.5°	1685.6	1701.1	1747.5	1767.4	1787.3
40°	1599.3	1612.6	1665.7	1690.0	1714.3
42.5°	1510.8	1528.5	1581.6	1617.0	1645.8
45°	1420.1	1440.0	1497.6	1541.8	1575.0
47.5°	1329.4	1356.0	1411.3	1471.0	1499.8
50°	1238.7	1265.3	1327.2	1393.6	1422.3
52.5°	1145.8	1172.4	1243.2	1311.7	1342.7
55°	1057.4	1083.9	1159.1	1234.3	1265.3
57.5°	964.4	993.2	1077.3	1154.7	1185.7
60°	873.8	902.5	993.2	1075.1	1108.2
62.5°	785.3	816.2	911.4	997.6	1030.8
65°	694.6	730.0	829.5	920.2	955.6
67.5°	606.1	645.9	749.9	845.0	882.6
70°	517.6	564.1	674.7	772.0	809.6
72.5°	431.3	482.2	599.5	696.8	716.7
75°	347.3	407.0	528.7	575.1	570.7
77.5°	267.7	334.0	449.0	457.9	471.2
80°	194.7	267.7	336.2	353.9	345.1
82.5°	128.3	201.3	241.1	232.3	230.1
85°	73.0	126.1	134.9	123.9	123.9
87.5°	31.0	50.9	44.2	33.2	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)