

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: P261317

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261317
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-LD5-60-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5775.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

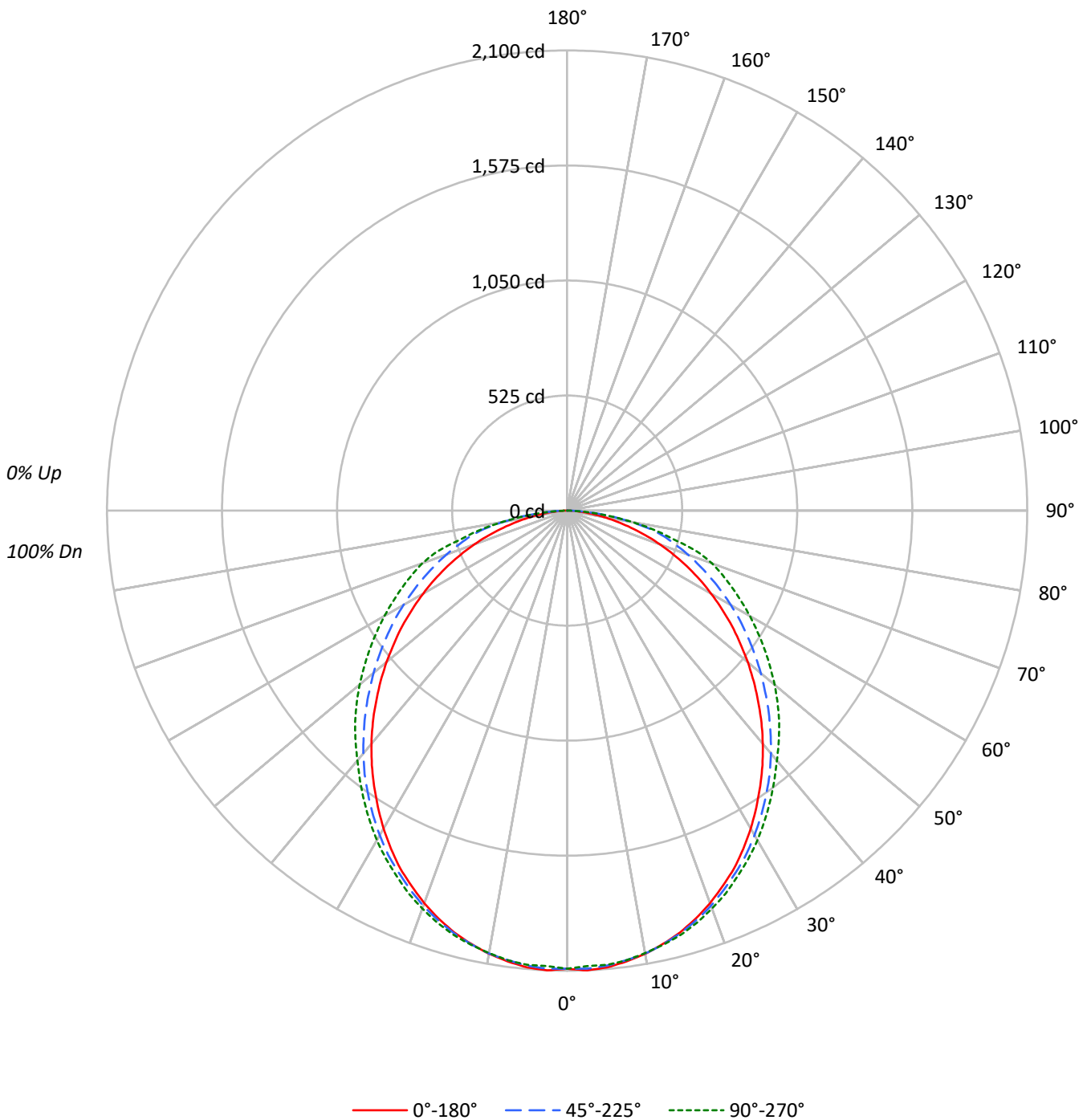
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2813	2813	2813
5°	2826	2816	2811
10°	2806	2804	2801
15°	2776	2781	2792
20°	2729	2749	2768
25°	2676	2704	2733
30°	2603	2657	2699
35°	2522	2601	2654
40°	2440	2541	2616
45°	2347	2475	2603
50°	2253	2413	2586
55°	2155	2362	2578
60°	2042	2322	2591
65°	1921	2294	2643
70°	1769	2306	2767
75°	1568	2388	2577
80°	1310	2263	2323
85°	979	1809	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	3.4
10°-20°	562.2	9.7
20°-30°	837.8	14.5
30°-40°	986.2	17.1
40°-50°	1002.2	17.4
50°-60°	901.0	15.6
60°-70°	711.8	12.3
70°-80°	451.6	7.8
80°-90°	124.6	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°	1597.6	27.7
0°-40°	2583.8	44.7
0°-60°	4487.0	77.7
0°-90°	5775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2093	2075	2085	2081	2081	198
15°	1993	1983	1996	2002	2004	561
25°	1802	1800	1822	1833	1841	829
35°	1535	1545	1583	1601	1616	961
45°	1234	1251	1301	1339	1368	952
55°	918	942	1007	1072	1099	820
65°	603	634	721	799	830	598
75°	302	354	459	500	496	321
85°	63	110	117	108	108	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.7	2090.7	2090.7	2090.7	2090.7
2.5°	2100.3	2084.9	2092.6	2088.7	2081.0
5°	2092.6	2075.3	2084.9	2081.0	2081.0
7.5°	2075.3	2061.8	2069.5	2067.6	2069.5
10°	2054.1	2040.7	2052.2	2052.2	2050.3
12.5°	2025.3	2013.8	2027.2	2027.2	2029.2
15°	1992.7	1983.0	1996.5	2002.3	2004.2
17.5°	1952.3	1942.7	1960.0	1965.8	1971.5
20°	1906.2	1902.3	1919.6	1925.4	1933.1
22.5°	1854.3	1854.3	1871.6	1879.3	1890.8
25°	1802.4	1800.5	1821.6	1833.2	1840.9
27.5°	1740.9	1742.9	1769.8	1781.3	1790.9
30°	1675.6	1679.4	1710.2	1723.6	1737.1
32.5°	1606.4	1614.1	1648.7	1664.1	1677.5
35°	1535.3	1544.9	1583.4	1600.7	1616.0
37.5°	1464.2	1477.7	1518.0	1535.3	1552.6
40°	1389.3	1400.8	1446.9	1468.1	1489.2
42.5°	1312.4	1327.8	1373.9	1404.7	1429.6
45°	1233.6	1250.9	1300.9	1339.3	1368.2
47.5°	1154.9	1177.9	1226.0	1277.8	1302.8
50°	1076.1	1099.1	1152.9	1210.6	1235.6
52.5°	995.4	1018.4	1079.9	1139.5	1166.4
55°	918.5	941.6	1006.9	1072.2	1099.1
57.5°	837.8	862.8	935.8	1003.1	1030.0
60°	759.0	784.0	862.8	933.9	962.7
62.5°	682.2	709.1	791.7	866.6	895.4
65°	603.4	634.1	720.6	799.4	830.1
67.5°	526.5	561.1	651.4	734.0	766.7
70°	449.6	490.0	586.1	670.6	703.3
72.5°	374.7	418.9	520.7	605.3	622.6
75°	301.7	353.6	459.3	499.6	495.8
77.5°	232.5	290.2	390.1	397.8	409.3
80°	169.1	232.5	292.1	307.4	299.8
82.5°	111.5	174.9	209.4	201.8	199.8
85°	63.4	109.5	117.2	107.6	107.6
87.5°	26.9	44.2	38.4	28.8	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)