

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: P261177

Luminaire Tested: **24CZ-LD5-60-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261177
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-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: 5809.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

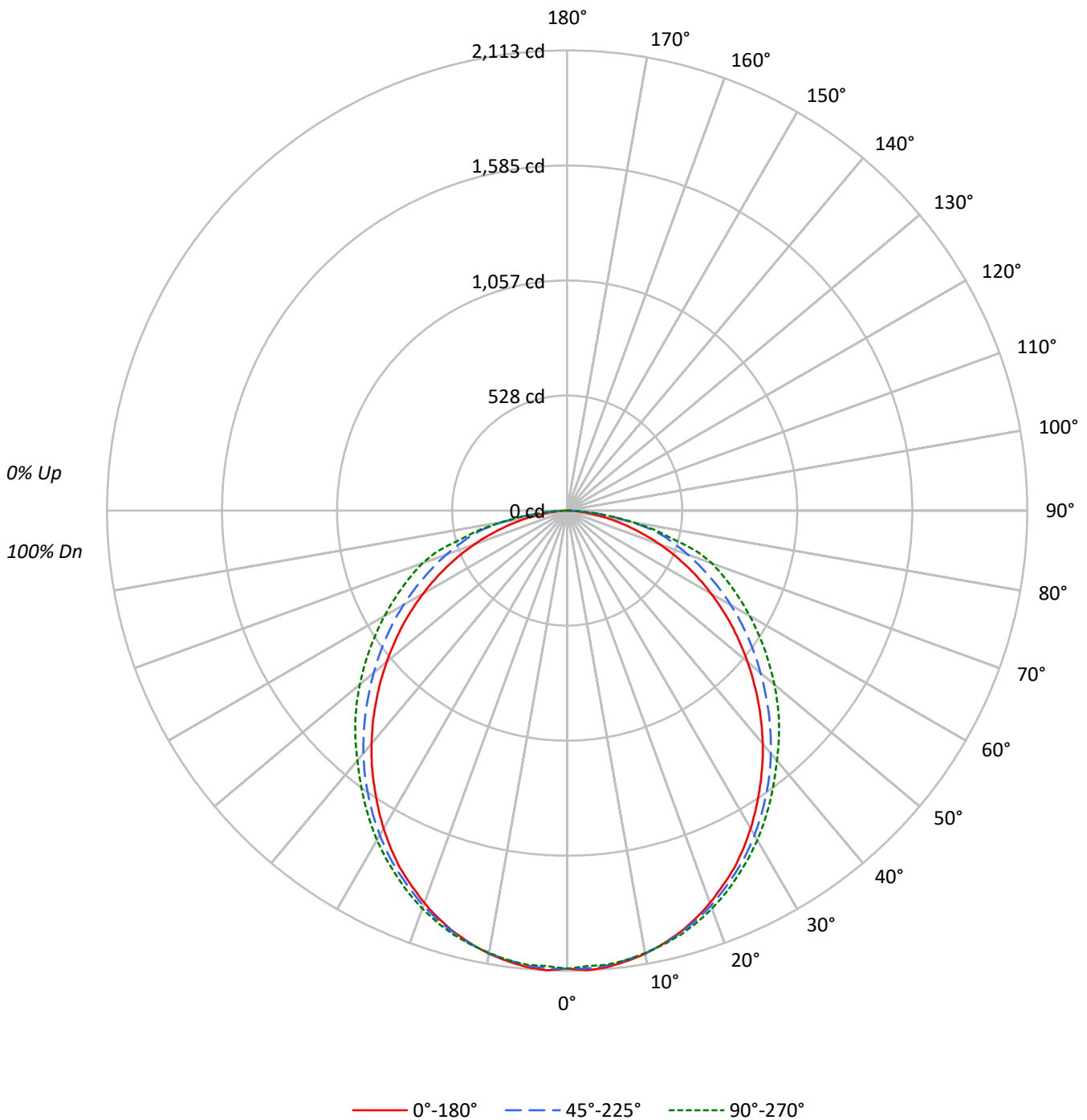
Input Watts (W): 43.989
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2830	2830	2830
5°	2843	2833	2827
10°	2823	2820	2818
15°	2792	2797	2808
20°	2745	2765	2784
25°	2692	2720	2749
30°	2619	2673	2715
35°	2537	2616	2670
40°	2455	2556	2631
45°	2361	2490	2619
50°	2266	2427	2601
55°	2167	2376	2594
60°	2055	2336	2606
65°	1932	2308	2658
70°	1779	2319	2783
75°	1578	2402	2593
80°	1318	2276	2336
85°	985	1820	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	3.4
10°-20°	565.5	9.7
20°-30°	842.7	14.5
30°-40°	992.0	17.1
40°-50°	1008.1	17.4
50°-60°	906.3	15.6
60°-70°	716.0	12.3
70°-80°	454.3	7.8
80°-90°	125.4	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°	1607.0	27.7
0°-40°	2599.0	44.7
0°-60°	4513.4	77.7
0°-90°	5809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2105	2088	2097	2093	2093	200
15°	2004	1995	2008	2014	2016	565
25°	1813	1811	1832	1844	1852	834
35°	1544	1554	1593	1610	1626	966
45°	1241	1258	1309	1347	1376	958
55°	924	947	1013	1078	1106	825
65°	607	638	725	804	835	601
75°	304	356	462	502	499	323
85°	64	110	118	108	108	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.0	2103.0	2103.0	2103.0	2103.0
2.5°	2112.6	2097.2	2104.9	2101.0	2093.3
5°	2104.9	2087.5	2097.2	2093.3	2093.3
7.5°	2087.5	2074.0	2081.7	2079.8	2081.7
10°	2066.2	2052.7	2064.3	2064.3	2062.4
12.5°	2037.2	2025.6	2039.2	2039.2	2041.1
15°	2004.4	1994.7	2008.3	2014.1	2016.0
17.5°	1963.8	1954.1	1971.5	1977.3	1983.1
20°	1917.4	1913.5	1930.9	1936.7	1944.5
22.5°	1865.2	1865.2	1882.6	1890.3	1901.9
25°	1813.0	1811.1	1832.4	1844.0	1851.7
27.5°	1751.2	1753.1	1780.2	1791.8	1801.4
30°	1685.5	1689.3	1720.3	1733.8	1747.3
32.5°	1615.9	1623.6	1658.4	1673.9	1687.4
35°	1544.4	1554.0	1592.7	1610.1	1625.5
37.5°	1472.8	1486.4	1527.0	1544.4	1561.8
40°	1397.5	1409.1	1455.5	1476.7	1498.0
42.5°	1320.2	1335.6	1382.0	1412.9	1438.1
45°	1240.9	1258.3	1308.6	1347.2	1376.2
47.5°	1161.7	1184.9	1233.2	1285.4	1310.5
50°	1082.4	1105.6	1159.7	1217.7	1242.8
52.5°	1001.2	1024.4	1086.3	1146.2	1173.3
55°	923.9	947.1	1012.8	1078.5	1105.6
57.5°	842.7	867.9	941.3	1009.0	1036.0
60°	763.5	788.6	867.9	939.4	968.4
62.5°	686.2	713.2	796.3	871.7	900.7
65°	606.9	637.8	724.8	804.1	835.0
67.5°	529.6	564.4	655.2	738.4	771.2
70°	452.3	492.9	589.5	674.6	707.4
72.5°	376.9	421.4	523.8	608.9	626.3
75°	303.5	355.6	462.0	502.5	498.7
77.5°	233.9	291.9	392.4	400.1	411.7
80°	170.1	233.9	293.8	309.3	301.5
82.5°	112.1	175.9	210.7	203.0	201.0
85°	63.8	110.2	117.9	108.2	108.2
87.5°	27.1	44.5	38.7	29.0	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)