

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: P260763

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260763
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-LD5-60-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6289.0 lumens
Efficiency: N/A
Efficacy: 138.3 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

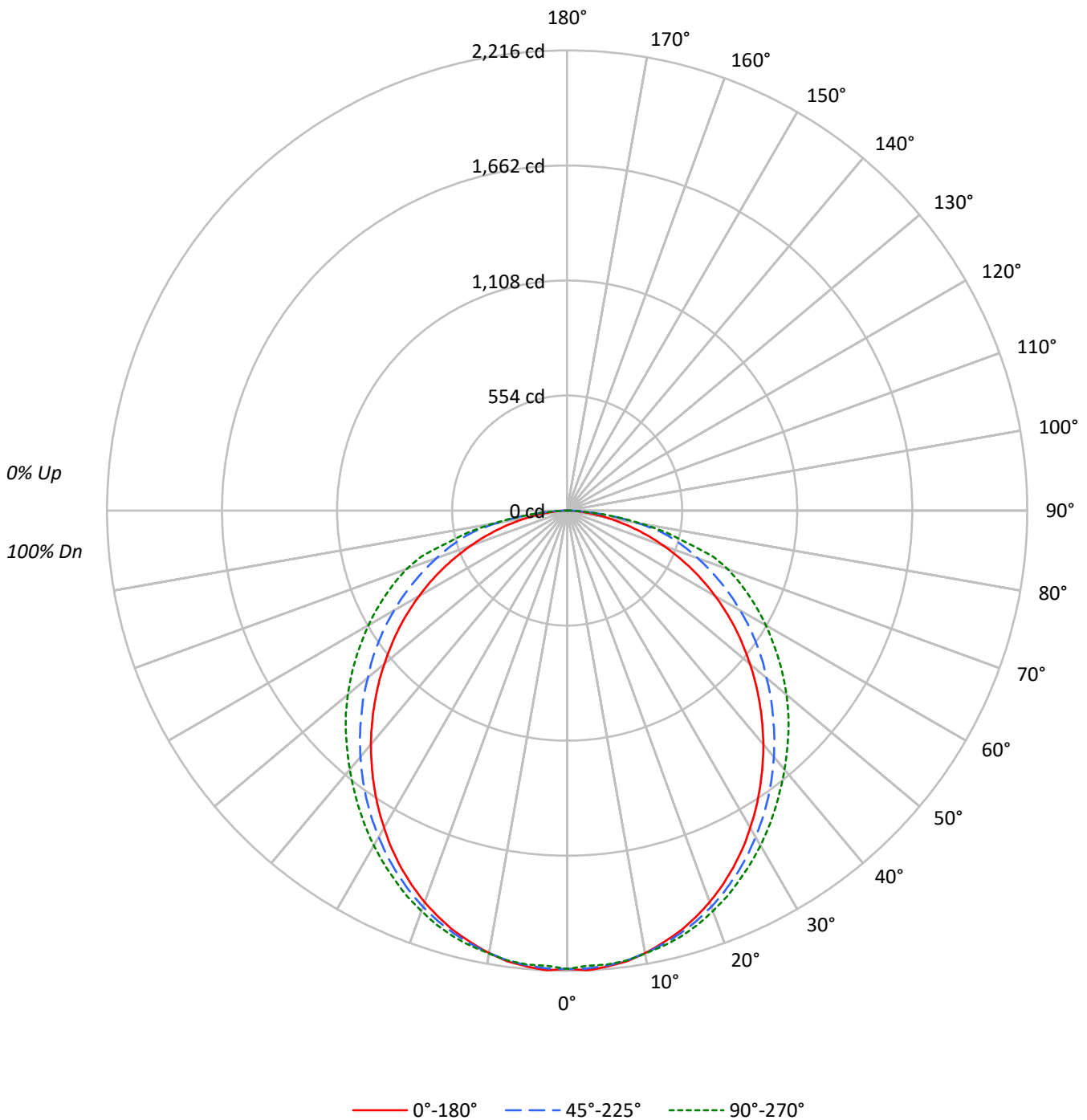
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2970	2970	2970
5°	2978	2969	2964
10°	2957	2957	2960
15°	2921	2936	2957
20°	2874	2907	2938
25°	2813	2867	2915
30°	2740	2820	2894
35°	2663	2773	2872
40°	2583	2719	2859
45°	2495	2667	2868
50°	2407	2623	2885
55°	2319	2606	2914
60°	2214	2590	2972
65°	2098	2591	3071
70°	1940	2635	3236
75°	1735	2754	3079
80°	1451	2636	2820
85°	1098	2029	1928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	3.3
10°-20°	593.6	9.4
20°-30°	887.4	14.1
30°-40°	1052.7	16.7
40°-50°	1083.5	17.2
50°-60°	994.0	15.8
60°-70°	803.7	12.8
70°-80°	521.6	8.3
80°-90°	143.8	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°	1689.6	26.9
0°-40°	2742.3	43.6
0°-60°	4819.9	76.6
0°-90°	6289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2207	2207	2207	2207	2207	
5°	2205	2190	2198	2196	2194	209
15°	2097	2089	2108	2117	2123	591
25°	1895	1897	1932	1949	1964	872
35°	1621	1634	1688	1725	1748	1014
45°	1311	1333	1402	1468	1507	1012
55°	988	1018	1111	1202	1242	883
65°	659	698	814	922	965	651
75°	334	396	530	592	592	355
85°	71	121	131	127	125	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2215.7	2198.5	2207.1	2205.0	2194.2
5°	2205.0	2189.9	2198.5	2196.3	2194.2
7.5°	2189.9	2174.8	2185.6	2183.4	2185.6
10°	2164.0	2151.1	2164.0	2166.2	2166.2
12.5°	2131.7	2121.0	2138.2	2142.5	2146.8
15°	2097.3	2088.7	2108.1	2116.7	2123.1
17.5°	2054.2	2047.8	2071.5	2082.2	2090.8
20°	2006.9	2004.7	2030.5	2041.3	2052.1
22.5°	1953.0	1953.0	1983.2	1996.1	2011.2
25°	1894.9	1897.0	1931.5	1948.7	1963.8
27.5°	1832.4	1834.6	1875.5	1897.0	1914.3
30°	1763.5	1772.1	1815.2	1843.2	1862.6
32.5°	1694.6	1705.4	1752.8	1785.1	1806.6
35°	1621.4	1634.3	1688.2	1724.8	1748.5
37.5°	1546.1	1561.1	1619.3	1660.2	1688.2
40°	1470.7	1487.9	1548.2	1595.6	1627.9
42.5°	1391.0	1410.4	1477.2	1533.1	1567.6
45°	1311.3	1332.9	1401.8	1468.5	1507.3
47.5°	1231.7	1257.5	1330.7	1403.9	1444.9
50°	1149.9	1175.7	1253.2	1337.2	1378.1
52.5°	1068.0	1098.2	1184.3	1270.4	1311.3
55°	988.4	1018.5	1111.1	1201.5	1242.4
57.5°	906.5	936.7	1037.9	1132.6	1173.5
60°	822.6	857.0	962.5	1059.4	1104.6
62.5°	740.7	777.3	889.3	992.7	1035.7
65°	658.9	697.7	813.9	921.6	964.7
67.5°	574.9	620.1	740.7	850.5	895.8
70°	493.1	542.6	669.7	779.5	822.6
72.5°	413.4	467.3	598.6	710.6	736.4
75°	333.8	396.2	529.7	592.2	592.2
77.5°	258.4	327.3	452.2	475.9	488.8
80°	187.3	262.7	340.2	368.2	363.9
82.5°	124.9	200.3	243.3	243.3	236.9
85°	71.1	120.6	131.4	127.0	124.9
87.5°	30.1	45.2	40.9	32.3	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)