

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: P260760

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260760
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6128.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

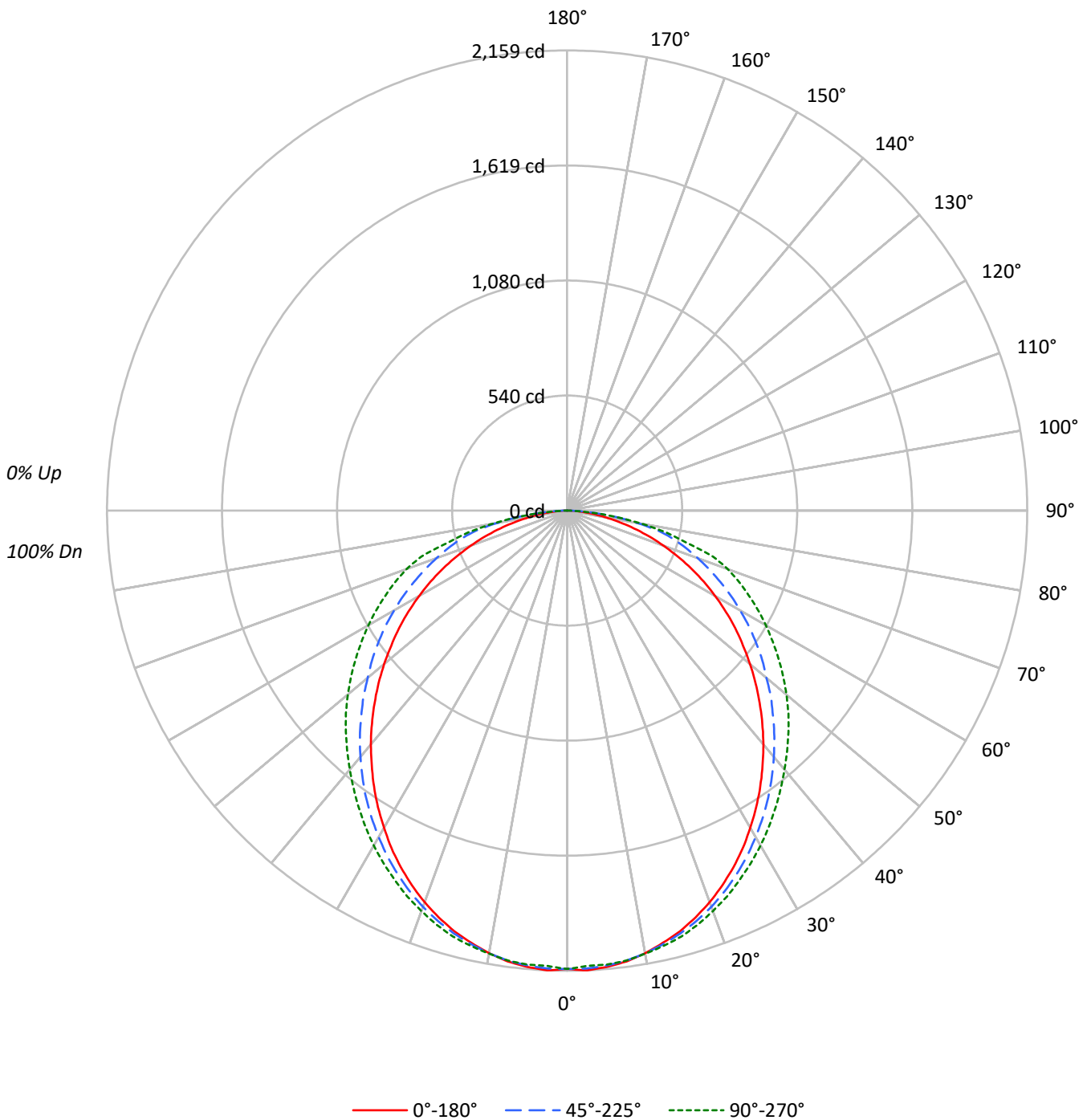
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2894	2894	2894
5°	2902	2893	2888
10°	2881	2881	2884
15°	2847	2861	2882
20°	2800	2833	2863
25°	2741	2794	2841
30°	2670	2748	2820
35°	2595	2702	2798
40°	2517	2650	2786
45°	2431	2599	2795
50°	2345	2556	2811
55°	2259	2540	2840
60°	2157	2524	2897
65°	2044	2525	2993
70°	1890	2567	3153
75°	1691	2683	3000
80°	1414	2569	2748
85°	1068	1976	1879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	3.3
10°-20°	578.4	9.4
20°-30°	864.7	14.1
30°-40°	1025.8	16.7
40°-50°	1055.8	17.2
50°-60°	968.6	15.8
60°-70°	783.1	12.8
70°-80°	508.2	8.3
80°-90°	140.2	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°	1646.3	26.9
0°-40°	2672.1	43.6
0°-60°	4696.5	76.6
0°-90°	6128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2148	2134	2142	2140	2138	204
15°	2044	2035	2054	2062	2069	576
25°	1846	1848	1882	1899	1914	850
35°	1580	1592	1645	1681	1704	988
45°	1278	1299	1366	1431	1469	986
55°	963	992	1083	1171	1211	860
65°	642	680	793	898	940	634
75°	325	386	516	577	577	346
85°	69	118	128	124	122	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2150.6	2150.6	2150.6	2150.6	2150.6
2.5°	2159.0	2142.2	2150.6	2148.5	2138.0
5°	2148.5	2133.8	2142.2	2140.1	2138.0
7.5°	2133.8	2119.1	2129.6	2127.5	2129.6
10°	2108.6	2096.1	2108.6	2110.7	2110.7
12.5°	2077.2	2066.7	2083.5	2087.7	2091.9
15°	2043.6	2035.2	2054.1	2062.5	2068.8
17.5°	2001.6	1995.3	2018.4	2028.9	2037.3
20°	1955.5	1953.4	1978.6	1989.1	1999.5
22.5°	1903.0	1903.0	1932.4	1945.0	1959.7
25°	1846.4	1848.5	1882.0	1898.8	1913.5
27.5°	1785.5	1787.6	1827.5	1848.5	1865.3
30°	1718.4	1726.8	1768.7	1796.0	1814.9
32.5°	1651.2	1661.7	1707.9	1739.4	1760.4
35°	1579.9	1592.5	1645.0	1680.6	1703.7
37.5°	1506.5	1521.2	1577.8	1617.7	1645.0
40°	1433.0	1449.8	1508.6	1554.7	1586.2
42.5°	1355.4	1374.3	1439.3	1493.9	1527.5
45°	1277.8	1298.8	1365.9	1430.9	1468.7
47.5°	1200.1	1225.3	1296.7	1368.0	1407.9
50°	1120.4	1145.6	1221.1	1303.0	1342.8
52.5°	1040.7	1070.1	1154.0	1237.9	1277.8
55°	963.1	992.4	1082.6	1170.8	1210.6
57.5°	883.3	912.7	1011.3	1103.6	1143.5
60°	801.5	835.1	937.9	1032.3	1076.4
62.5°	721.8	757.4	866.5	967.2	1009.2
65°	642.0	679.8	793.1	898.0	940.0
67.5°	560.2	604.3	721.8	828.8	872.8
70°	480.5	528.7	652.5	759.5	801.5
72.5°	402.8	455.3	583.3	692.4	717.6
75°	325.2	386.1	516.1	577.0	577.0
77.5°	251.8	318.9	440.6	463.7	476.3
80°	182.5	256.0	331.5	358.8	354.6
82.5°	121.7	195.1	237.1	237.1	230.8
85°	69.2	117.5	128.0	123.8	121.7
87.5°	29.4	44.1	39.9	31.5	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)