

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: P260759

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260759
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6021.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

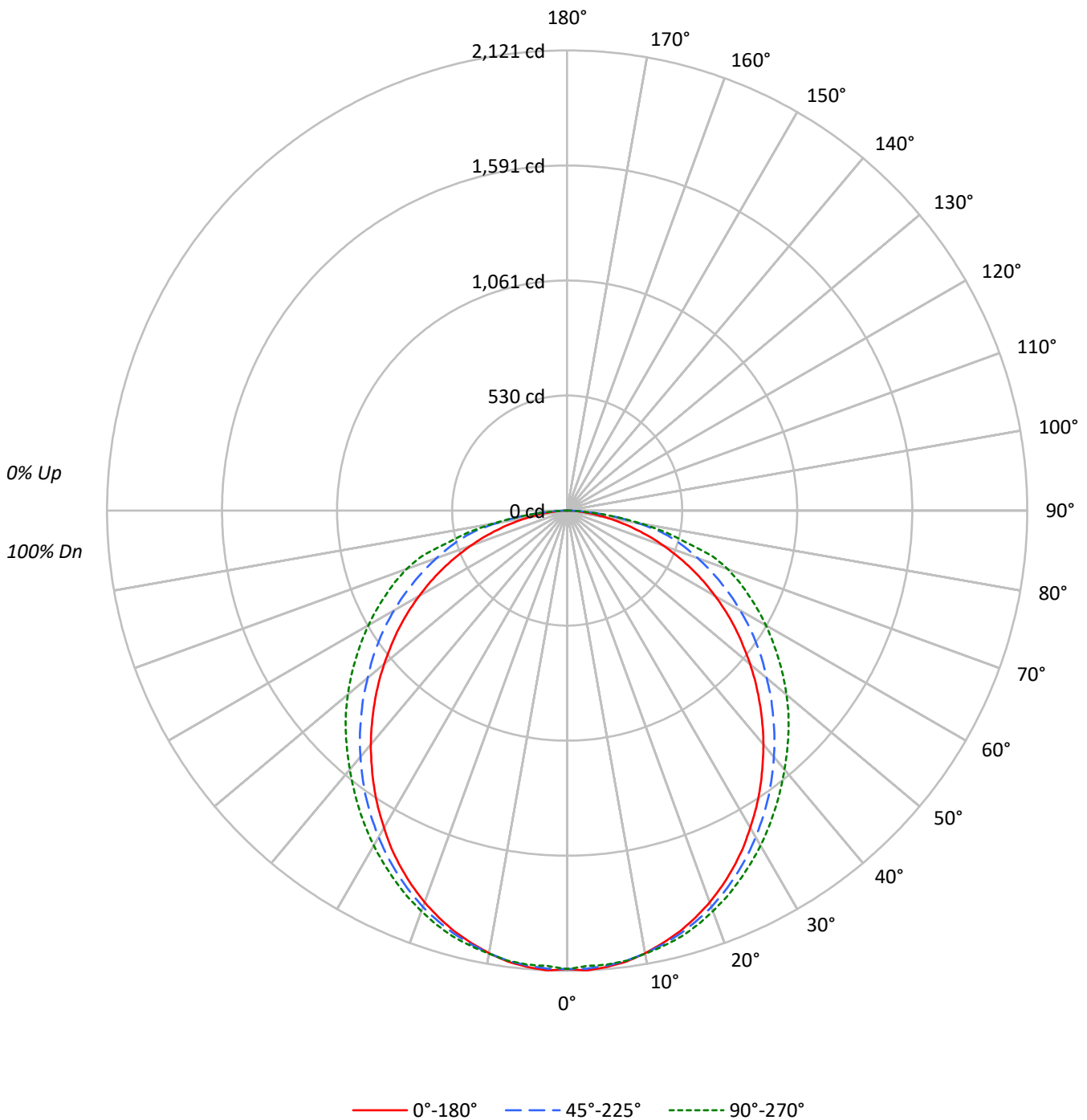
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2843	2843	2843
5°	2851	2843	2837
10°	2831	2831	2833
15°	2797	2811	2831
20°	2751	2783	2813
25°	2693	2745	2791
30°	2623	2700	2770
35°	2550	2655	2750
40°	2473	2603	2737
45°	2389	2554	2746
50°	2304	2511	2762
55°	2220	2495	2790
60°	2119	2480	2846
65°	2008	2481	2940
70°	1857	2522	3098
75°	1661	2636	2947
80°	1390	2524	2700
85°	1050	1942	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.3
10°-20°	568.3	9.4
20°-30°	849.6	14.1
30°-40°	1007.9	16.7
40°-50°	1037.4	17.2
50°-60°	951.7	15.8
60°-70°	769.5	12.8
70°-80°	499.4	8.3
80°-90°	137.7	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°	1617.6	26.9
0°-40°	2625.5	43.6
0°-60°	4614.5	76.6
0°-90°	6021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2111	2097	2105	2103	2101	200
15°	2008	2000	2018	2026	2033	566
25°	1814	1816	1849	1866	1880	835
35°	1552	1565	1616	1651	1674	971
45°	1256	1276	1342	1406	1443	969
55°	946	975	1064	1150	1190	845
65°	631	668	779	882	924	623
75°	320	379	507	567	567	340
85°	68	115	126	122	120	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.1	2113.1	2113.1	2113.1	2113.1
2.5°	2121.3	2104.8	2113.1	2111.0	2100.7
5°	2111.0	2096.6	2104.8	2102.8	2100.7
7.5°	2096.6	2082.1	2092.4	2090.4	2092.4
10°	2071.8	2059.5	2071.8	2073.9	2073.9
12.5°	2040.9	2030.6	2047.1	2051.2	2055.3
15°	2007.9	1999.7	2018.2	2026.5	2032.7
17.5°	1966.7	1960.5	1983.2	1993.5	2001.7
20°	1921.3	1919.3	1944.0	1954.3	1964.6
22.5°	1869.8	1869.8	1898.7	1911.0	1925.5
25°	1814.1	1816.2	1849.2	1865.7	1880.1
27.5°	1754.4	1756.4	1795.6	1816.2	1832.7
30°	1688.4	1696.6	1737.9	1764.7	1783.2
32.5°	1622.4	1632.7	1678.1	1709.0	1729.6
35°	1552.3	1564.7	1616.2	1651.3	1674.0
37.5°	1480.2	1494.6	1550.3	1589.4	1616.2
40°	1408.0	1424.5	1482.2	1527.6	1558.5
42.5°	1331.7	1350.3	1414.2	1467.8	1500.8
45°	1255.5	1276.1	1342.0	1406.0	1443.1
47.5°	1179.2	1203.9	1274.0	1344.1	1383.3
50°	1100.9	1125.6	1199.8	1280.2	1319.4
52.5°	1022.5	1051.4	1133.8	1216.3	1255.5
55°	946.2	975.1	1063.7	1150.3	1189.5
57.5°	867.9	896.8	993.7	1084.4	1123.5
60°	787.5	820.5	921.5	1014.3	1057.6
62.5°	709.2	744.2	851.4	950.4	991.6
65°	630.8	667.9	779.3	882.3	923.6
67.5°	550.4	593.7	709.2	814.3	857.6
70°	472.1	519.5	641.1	746.3	787.5
72.5°	395.8	447.3	573.1	680.3	705.0
75°	319.5	379.3	507.1	566.9	566.9
77.5°	247.4	313.4	432.9	455.6	468.0
80°	179.4	251.5	325.7	352.5	348.4
82.5°	119.6	191.7	233.0	233.0	226.8
85°	68.0	115.4	125.8	121.6	119.6
87.5°	28.9	43.3	39.2	30.9	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)