

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: P260911

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260911
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-LD5-70-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6033.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

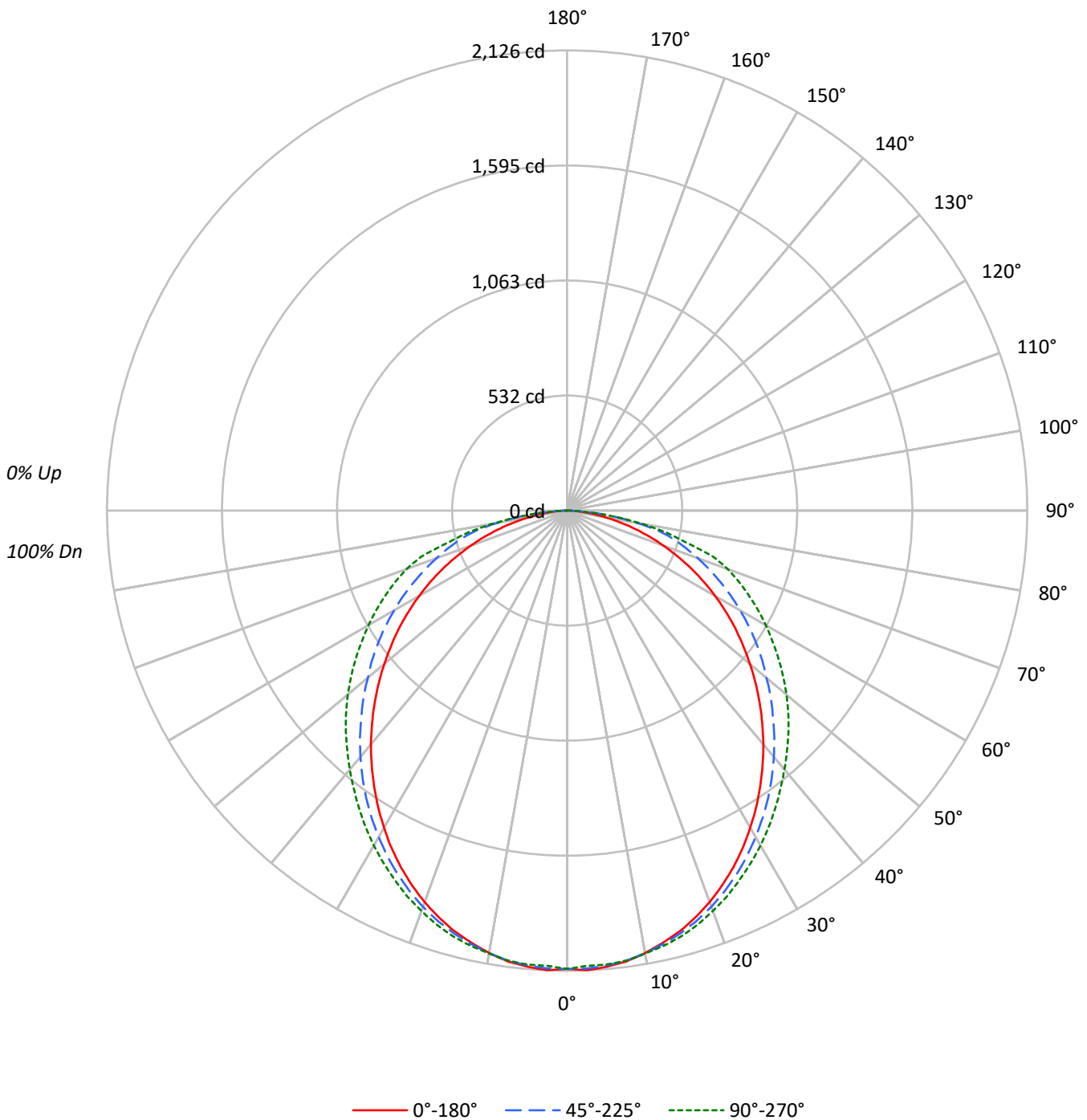
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2849	2849	2849
5°	2857	2848	2843
10°	2836	2836	2839
15°	2802	2817	2837
20°	2757	2789	2819
25°	2699	2751	2797
30°	2628	2705	2776
35°	2555	2660	2755
40°	2478	2609	2743
45°	2394	2559	2751
50°	2309	2516	2767
55°	2224	2500	2796
60°	2123	2485	2852
65°	2012	2486	2946
70°	1861	2527	3104
75°	1665	2641	2953
80°	1392	2529	2705
85°	1053	1945	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.3
10°-20°	569.4	9.4
20°-30°	851.3	14.1
30°-40°	1009.9	16.7
40°-50°	1039.4	17.2
50°-60°	953.5	15.8
60°-70°	771.0	12.8
70°-80°	500.4	8.3
80°-90°	138.0	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°	1620.8	26.9
0°-40°	2630.7	43.6
0°-60°	4623.7	76.6
0°-90°	6033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2115	2101	2109	2107	2105	201
15°	2012	2004	2022	2030	2037	567
25°	1818	1820	1853	1869	1884	837
35°	1555	1568	1620	1655	1677	973
45°	1258	1279	1345	1409	1446	971
55°	948	977	1066	1153	1192	847
65°	632	669	781	884	925	625
75°	320	380	508	568	568	340
85°	68	116	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°	2117.3	2117.3	2117.3	2117.3	2117.3
2.5°	2125.5	2109.0	2117.3	2115.2	2104.9
5°	2115.2	2100.7	2109.0	2106.9	2104.9
7.5°	2100.7	2086.3	2096.6	2094.5	2096.6
10°	2076.0	2063.6	2076.0	2078.0	2078.0
12.5°	2045.0	2034.6	2051.2	2055.3	2059.4
15°	2011.9	2003.7	2022.3	2030.5	2036.7
17.5°	1970.6	1964.4	1987.1	1997.5	2005.7
20°	1925.2	1923.1	1947.9	1958.2	1968.5
22.5°	1873.5	1873.5	1902.4	1914.8	1929.3
25°	1817.8	1819.8	1852.9	1869.4	1883.9
27.5°	1757.8	1759.9	1799.2	1819.8	1836.3
30°	1691.7	1700.0	1741.3	1768.2	1786.8
32.5°	1625.6	1636.0	1681.4	1712.4	1733.1
35°	1555.4	1567.8	1619.5	1654.6	1677.3
37.5°	1483.1	1497.6	1553.4	1592.6	1619.5
40°	1410.8	1427.3	1485.2	1530.6	1561.6
42.5°	1334.4	1353.0	1417.0	1470.7	1503.8
45°	1258.0	1278.6	1344.7	1408.8	1445.9
47.5°	1181.5	1206.3	1276.6	1346.8	1386.0
50°	1103.0	1127.8	1202.2	1282.8	1322.0
52.5°	1024.6	1053.5	1136.1	1218.7	1258.0
55°	948.1	977.0	1065.9	1152.6	1191.9
57.5°	869.6	898.5	995.6	1086.5	1125.8
60°	789.1	822.1	923.3	1016.3	1059.7
62.5°	710.6	745.7	853.1	952.3	993.6
65°	632.1	669.3	780.8	884.1	925.4
67.5°	551.5	594.9	710.6	815.9	859.3
70°	473.0	520.5	642.4	747.8	789.1
72.5°	396.6	448.2	574.2	681.7	706.4
75°	320.2	380.1	508.1	568.0	568.0
77.5°	247.9	314.0	433.8	456.5	468.9
80°	179.7	252.0	326.4	353.2	349.1
82.5°	119.8	192.1	233.4	233.4	227.2
85°	68.2	115.7	126.0	121.9	119.8
87.5°	28.9	43.4	39.2	31.0	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)