

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: P276254

Luminaire Tested: **24CZ2-70HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6166.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

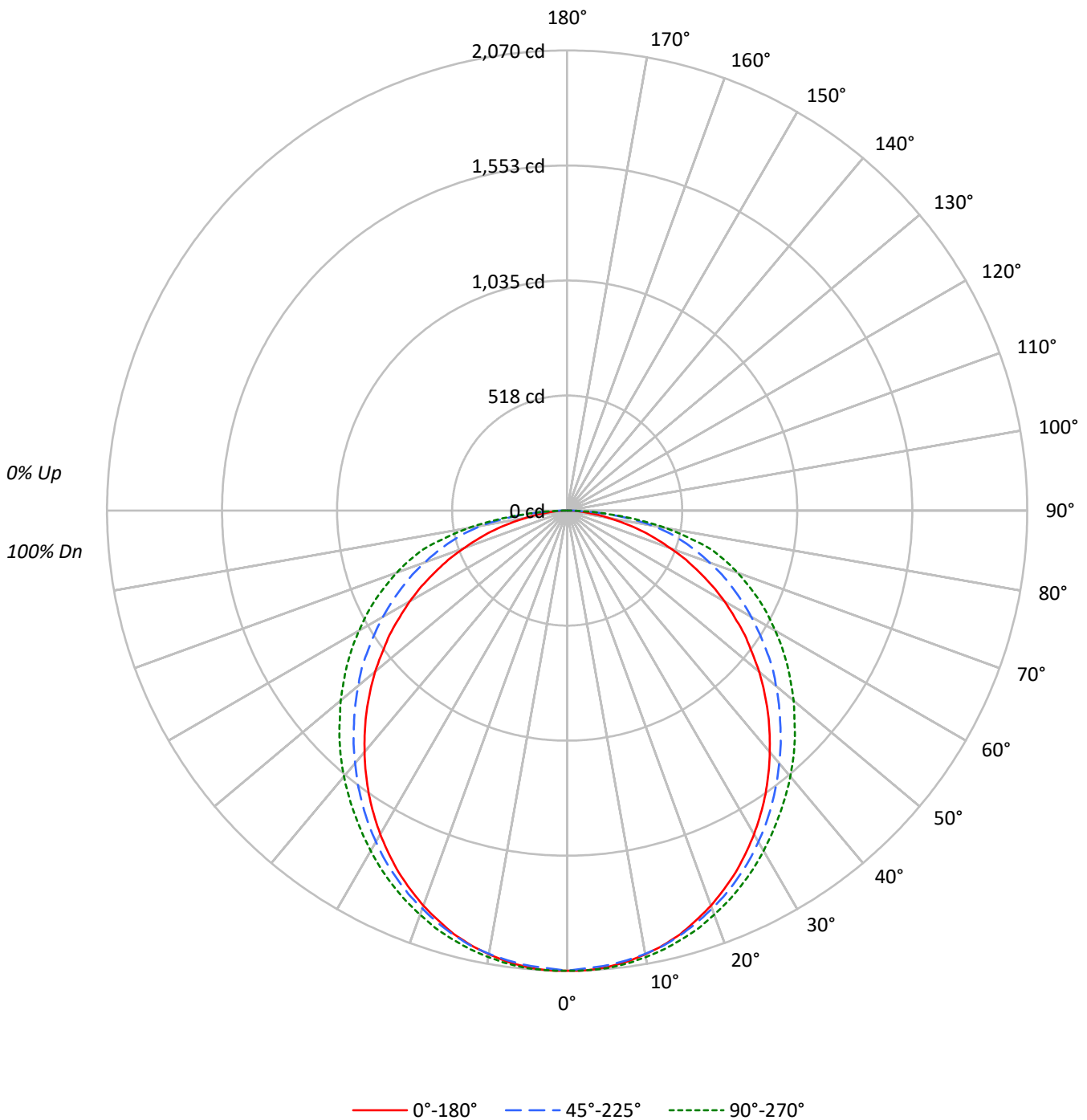
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2785	2785	2785
5°	2785	2774	2791
10°	2769	2767	2786
15°	2746	2752	2780
20°	2708	2729	2770
25°	2664	2704	2759
30°	2612	2673	2746
35°	2555	2640	2738
40°	2490	2606	2743
45°	2428	2580	2757
50°	2361	2567	2783
55°	2288	2563	2834
60°	2199	2575	2907
65°	2083	2614	3033
70°	1935	2680	3206
75°	1765	2813	3477
80°	1451	3030	3476
85°	1112	2796	2986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	3.2
10°-20°	559.0	9.1
20°-30°	841.2	13.6
30°-40°	1008.0	16.3
40°-50°	1050.5	17.0
50°-60°	977.4	15.9
60°-70°	805.0	13.1
70°-80°	548.2	8.9
80°-90°	181.0	2.9
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°	1595.9	25.9
0°-40°	2604.0	42.2
0°-60°	4631.8	75.1
0°-90°	6166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2062	2062	2054	2064	2066	196
15°	1971	1974	1976	1994	1996	555
25°	1794	1803	1821	1852	1858	826
35°	1556	1574	1607	1650	1667	972
45°	1276	1303	1356	1424	1449	984
55°	975	1008	1093	1179	1208	869
65°	654	710	821	918	953	650
75°	340	416	541	638	669	358
85°	72	140	181	193	193	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2070.2	2070.2	2059.9	2070.2	2070.2
5°	2062.0	2062.0	2053.8	2064.0	2066.1
7.5°	2047.6	2049.6	2041.4	2053.8	2055.8
10°	2027.0	2029.1	2024.9	2037.3	2039.4
12.5°	2002.3	2004.4	2004.4	2018.8	2020.8
15°	1971.4	1973.5	1975.6	1994.1	1996.1
17.5°	1932.3	1938.5	1942.6	1965.3	1969.4
20°	1891.2	1897.4	1905.6	1930.3	1934.4
22.5°	1843.9	1852.1	1866.5	1893.2	1899.4
25°	1794.5	1802.7	1821.2	1852.1	1858.3
27.5°	1738.9	1751.3	1773.9	1806.8	1815.0
30°	1681.3	1693.6	1720.4	1755.4	1767.7
32.5°	1619.5	1636.0	1666.9	1706.0	1718.3
35°	1555.8	1574.3	1607.2	1650.4	1666.9
37.5°	1487.8	1508.4	1547.5	1594.9	1615.4
40°	1417.9	1442.6	1483.7	1539.3	1561.9
42.5°	1347.9	1370.5	1422.0	1481.7	1506.4
45°	1275.9	1302.6	1356.1	1424.0	1448.7
47.5°	1201.8	1228.6	1292.3	1364.4	1387.0
50°	1127.7	1154.5	1226.5	1302.6	1329.4
52.5°	1047.5	1082.4	1164.8	1240.9	1267.7
55°	975.4	1008.4	1092.7	1179.2	1208.0
57.5°	893.1	932.2	1024.8	1115.4	1146.2
60°	817.0	858.1	956.9	1049.5	1080.4
62.5°	738.8	784.1	889.0	983.7	1018.6
65°	654.4	710.0	821.1	917.8	952.8
67.5°	578.3	635.9	753.2	852.0	882.8
70°	491.8	561.8	681.2	779.9	814.9
72.5°	417.7	487.7	613.2	710.0	745.0
75°	339.5	415.7	541.2	637.9	668.8
77.5°	261.4	345.7	471.3	545.3	555.6
80°	187.3	275.8	391.0	434.2	448.6
82.5°	131.7	212.0	288.1	316.9	325.1
85°	72.0	139.9	181.1	193.4	193.4
87.5°	30.9	59.7	72.0	74.1	76.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)