

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: P276122

Luminaire Tested: **24CZ2-70HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276122
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6972.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

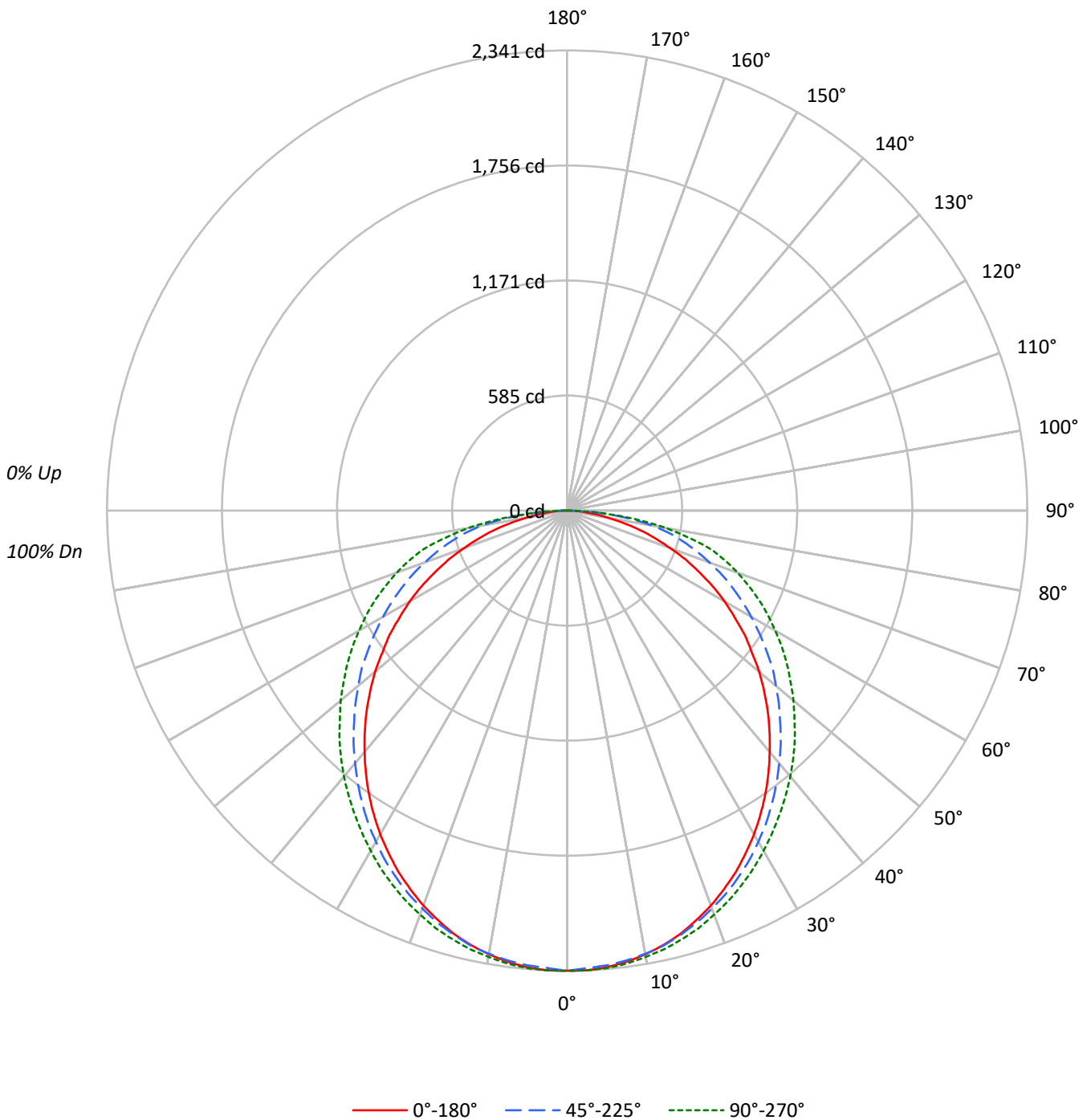
Input Watts (W): 56.079
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3150	3150	3150
5°	3149	3136	3155
10°	3131	3128	3150
15°	3105	3112	3144
20°	3062	3085	3132
25°	3012	3057	3119
30°	2954	3022	3105
35°	2889	2985	3096
40°	2816	2947	3102
45°	2745	2918	3117
50°	2669	2903	3147
55°	2587	2898	3204
60°	2486	2912	3287
65°	2356	2956	3430
70°	2188	3030	3625
75°	1996	3182	3931
80°	1640	3426	3931
85°	1257	3162	3376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	3.2
10°-20°	632.0	9.1
20°-30°	951.1	13.6
30°-40°	1139.8	16.3
40°-50°	1187.8	17.0
50°-60°	1105.1	15.9
60°-70°	910.2	13.1
70°-80°	619.9	8.9
80°-90°	204.7	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°	1804.6	25.9
0°-40°	2944.4	42.2
0°-60°	5237.3	75.1
0°-90°	6972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2332	2332	2322	2334	2336	221
15°	2229	2232	2234	2255	2257	628
25°	2029	2038	2059	2094	2101	934
35°	1759	1780	1817	1866	1885	1100
45°	1443	1473	1533	1610	1638	1113
55°	1103	1140	1236	1333	1366	983
65°	740	803	928	1038	1077	734
75°	384	470	612	721	756	405
85°	81	158	205	219	219	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2340.8	2340.8	2340.8	2340.8	2340.8
2.5°	2340.8	2340.8	2329.2	2340.8	2340.8
5°	2331.5	2331.5	2322.2	2333.9	2336.2
7.5°	2315.2	2317.6	2308.3	2322.2	2324.5
10°	2292.0	2294.3	2289.6	2303.6	2305.9
12.5°	2264.0	2266.4	2266.4	2282.7	2285.0
15°	2229.1	2231.5	2233.8	2254.7	2257.1
17.5°	2184.9	2191.9	2196.6	2222.2	2226.8
20°	2138.4	2145.4	2154.7	2182.6	2187.3
22.5°	2084.9	2094.2	2110.5	2140.7	2147.7
25°	2029.0	2038.3	2059.3	2094.2	2101.2
27.5°	1966.2	1980.2	2005.8	2043.0	2052.3
30°	1901.1	1915.0	1945.3	1984.8	1998.8
32.5°	1831.2	1849.9	1884.8	1929.0	1942.9
35°	1759.1	1780.1	1817.3	1866.1	1884.8
37.5°	1682.3	1705.6	1749.8	1803.3	1826.6
40°	1603.2	1631.1	1677.7	1740.5	1766.1
42.5°	1524.1	1549.7	1607.9	1675.3	1703.3
45°	1442.7	1472.9	1533.4	1610.2	1638.1
47.5°	1358.9	1389.1	1461.3	1542.7	1568.3
50°	1275.1	1305.4	1386.8	1472.9	1503.2
52.5°	1184.4	1223.9	1317.0	1403.1	1433.4
55°	1102.9	1140.2	1235.6	1333.3	1365.9
57.5°	1009.9	1054.1	1158.8	1261.2	1296.1
60°	923.8	970.3	1082.0	1186.7	1221.6
62.5°	835.3	886.5	1005.2	1112.2	1151.8
65°	739.9	802.8	928.4	1037.8	1077.3
67.5°	653.9	719.0	851.6	963.3	998.2
70°	556.1	635.2	770.2	881.9	921.4
72.5°	472.4	551.5	693.4	802.8	842.3
75°	383.9	470.0	612.0	721.3	756.2
77.5°	295.5	390.9	532.9	616.6	628.3
80°	211.7	311.8	442.1	491.0	507.3
82.5°	148.9	239.7	325.8	358.3	367.6
85°	81.4	158.2	204.8	218.7	218.7
87.5°	34.9	67.5	81.4	83.8	86.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)