

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: P276543

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

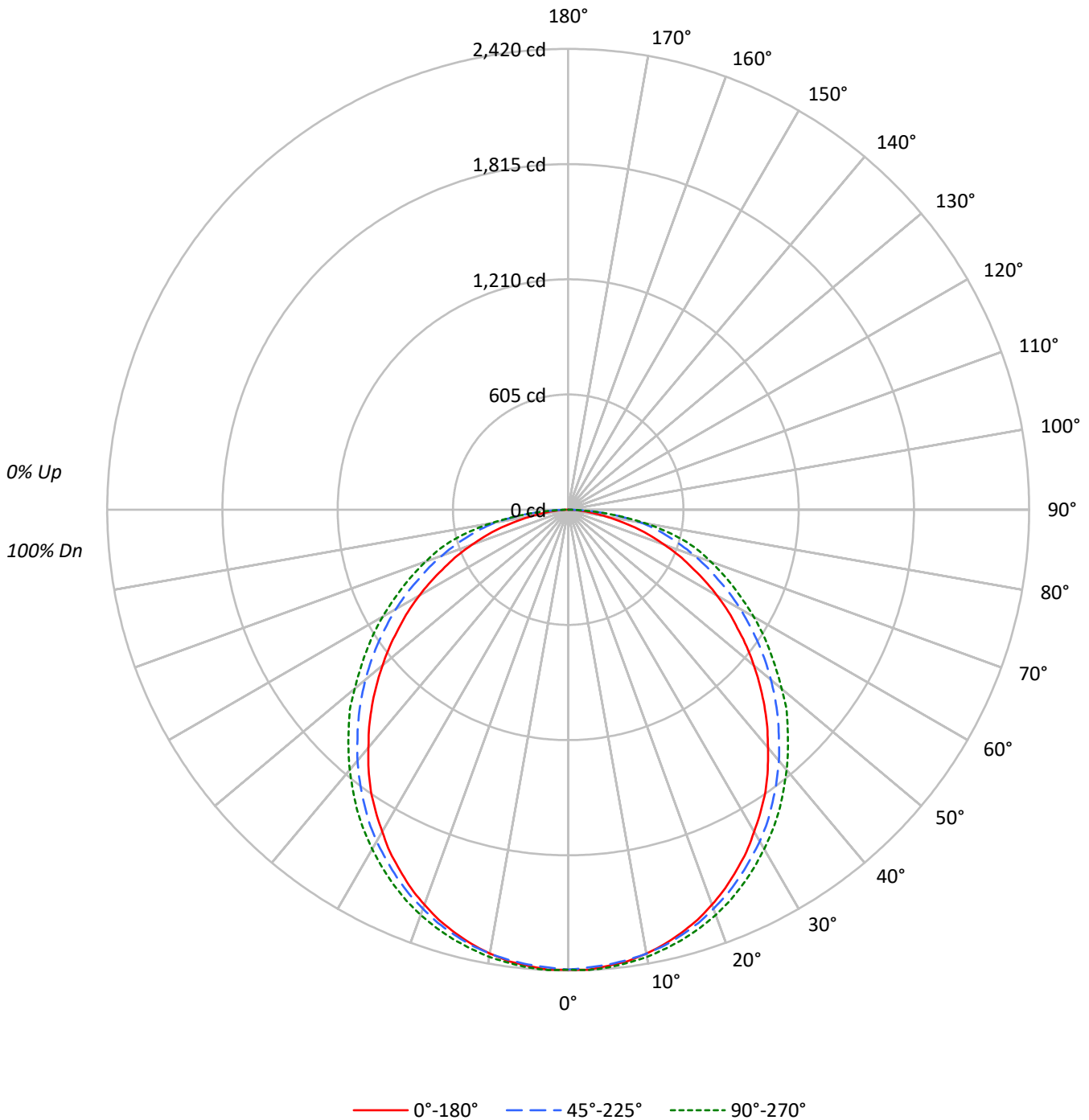
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3250	3250	3250
5°	3248	3239	3259
10°	3234	3234	3258
15°	3203	3219	3252
20°	3161	3193	3243
25°	3103	3161	3223
30°	3033	3125	3196
35°	2967	3074	3171
40°	2865	3023	3134
45°	2772	2963	3100
50°	2665	2907	3063
55°	2546	2853	3033
60°	2427	2809	3027
65°	2273	2760	3045
70°	2105	2775	3127
75°	1884	2827	3304
80°	1523	2996	3232
85°	1147	2629	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.3
10°-20°	653.4	9.5
20°-30°	982.2	14.3
30°-40°	1169.9	17.0
40°-50°	1197.4	17.4
50°-60°	1078.0	15.7
60°-70°	846.6	12.3
70°-80°	549.4	8.0
80°-90°	169.9	2.5
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°	1864.2	27.1
0°-40°	3034.2	44.1
0°-60°	5309.5	77.2
0°-90°	6875.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6875.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2415	2415	2415	2415	2415	
5°	2404	2409	2398	2411	2413	228
15°	2300	2306	2311	2330	2335	648
25°	2090	2108	2129	2164	2171	963
35°	1806	1828	1872	1918	1931	1127
45°	1457	1492	1557	1616	1629	1123
55°	1085	1133	1216	1280	1293	973
65°	714	769	867	939	956	711
75°	362	432	544	618	636	384
85°	74	138	170	166	166	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2415.4	2415.4	2415.4	2415.4	2415.4
2.5°	2417.6	2417.6	2406.7	2417.6	2419.8
5°	2404.5	2408.8	2397.9	2411.0	2413.2
7.5°	2391.4	2391.4	2384.8	2397.9	2400.1
10°	2367.3	2369.5	2367.3	2382.6	2384.8
12.5°	2336.8	2341.1	2343.3	2358.6	2360.8
15°	2299.6	2306.2	2310.6	2330.2	2334.6
17.5°	2258.2	2264.7	2275.6	2297.5	2301.8
20°	2207.9	2216.7	2229.8	2258.2	2264.7
22.5°	2153.3	2162.1	2183.9	2210.1	2221.0
25°	2090.0	2107.5	2129.3	2164.2	2170.8
27.5°	2026.7	2041.9	2070.3	2107.5	2116.2
30°	1952.4	1976.4	2011.4	2048.5	2057.2
32.5°	1880.3	1904.4	1945.9	1985.2	1996.1
35°	1806.1	1827.9	1871.6	1917.5	1930.6
37.5°	1720.9	1749.3	1797.3	1843.2	1856.3
40°	1631.4	1666.3	1720.9	1769.0	1784.2
42.5°	1546.2	1583.3	1637.9	1690.3	1707.8
45°	1456.7	1491.6	1557.1	1616.1	1629.2
47.5°	1364.9	1404.2	1474.1	1533.1	1554.9
50°	1273.2	1314.7	1389.0	1450.1	1463.2
52.5°	1181.5	1225.2	1303.8	1369.3	1375.9
55°	1085.4	1133.4	1216.4	1279.8	1292.9
57.5°	998.0	1039.5	1129.1	1194.6	1209.9
60°	902.0	947.8	1043.9	1105.1	1124.7
62.5°	810.2	858.3	958.7	1019.9	1037.4
65°	714.1	768.7	867.0	939.1	956.5
67.5°	631.1	683.6	788.4	858.3	875.7
70°	535.1	594.0	705.4	777.5	794.9
72.5°	452.1	513.2	624.6	694.5	720.7
75°	362.5	432.4	543.8	618.0	635.5
77.5°	275.2	356.0	469.5	526.3	526.3
80°	196.6	281.7	386.6	412.8	417.1
82.5°	128.9	211.8	286.1	283.9	283.9
85°	74.3	137.6	170.3	166.0	166.0
87.5°	28.4	56.8	61.1	61.1	59.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)