

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: P276128

Luminaire Tested: **24CZ2-75HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276128
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: 24CZ2-75HE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7342.9 lumens
Efficiency: N/A
Efficacy: 122.8 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

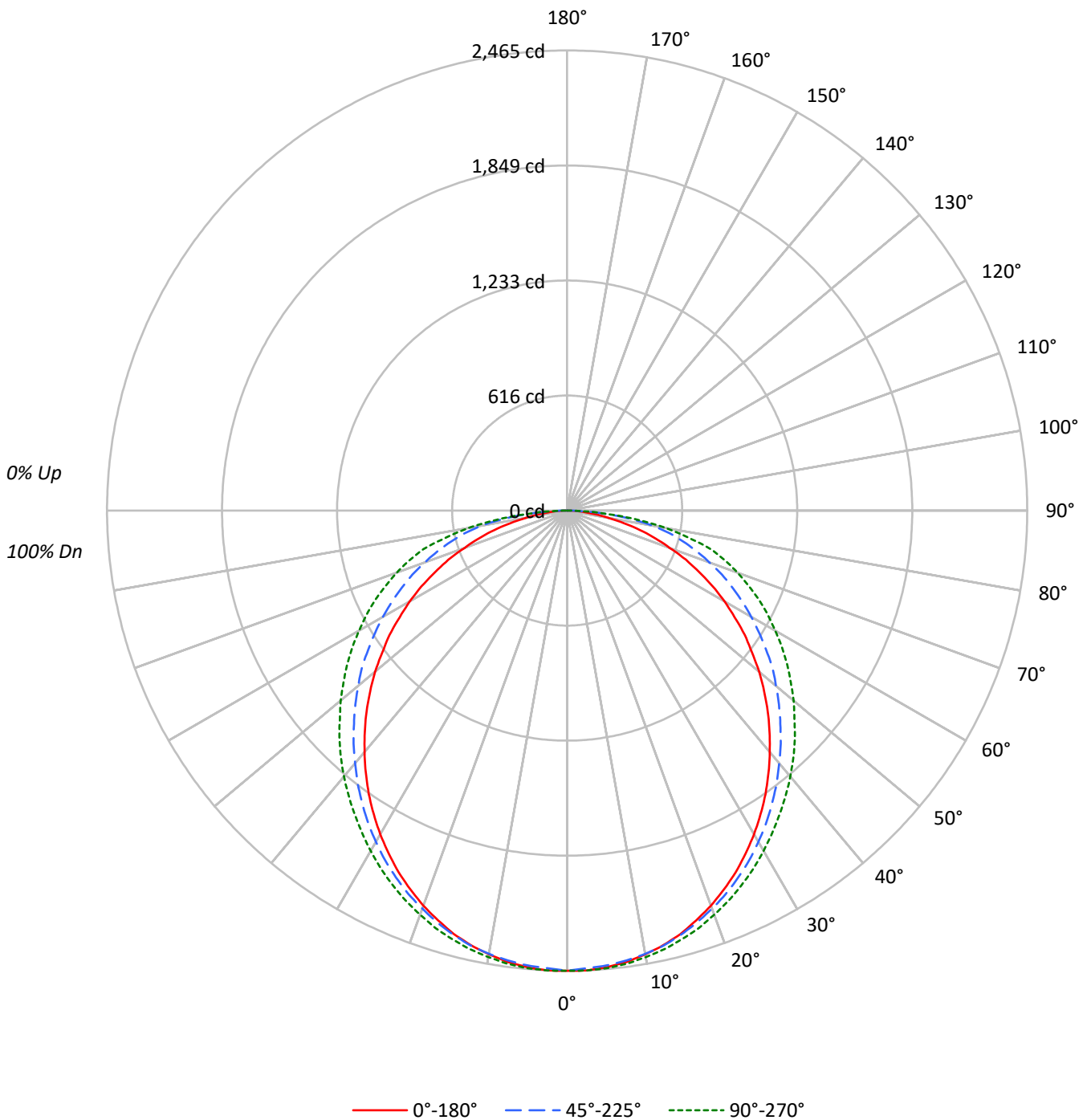
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3317	3317	3317
5°	3316	3303	3323
10°	3298	3295	3318
15°	3270	3277	3311
20°	3225	3249	3298
25°	3173	3220	3285
30°	3111	3183	3271
35°	3043	3144	3260
40°	2966	3103	3267
45°	2891	3073	3283
50°	2811	3057	3314
55°	2725	3053	3374
60°	2618	3066	3462
65°	2481	3113	3612
70°	2304	3191	3818
75°	2102	3350	4141
80°	1728	3608	4139
85°	1325	3330	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	3.2
10°-20°	665.7	9.1
20°-30°	1001.7	13.6
30°-40°	1200.4	16.3
40°-50°	1251.0	17.0
50°-60°	1163.9	15.9
60°-70°	958.6	13.1
70°-80°	652.9	8.9
80°-90°	215.5	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°	1900.5	25.9
0°-40°	3101.0	42.2
0°-60°	5515.8	75.1
0°-90°	7342.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7342.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2465	2465	2465	2465	2465	
5°	2456	2456	2446	2458	2460	233
15°	2348	2350	2353	2375	2377	661
25°	2137	2147	2169	2206	2213	984
35°	1853	1875	1914	1965	1985	1158
45°	1519	1551	1615	1696	1725	1172
55°	1162	1201	1301	1404	1438	1035
65°	779	846	978	1093	1135	774
75°	404	495	644	760	796	426
85°	86	167	216	230	230	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2465.3	2465.3	2465.3	2465.3	2465.3
2.5°	2465.3	2465.3	2453.1	2465.3	2465.3
5°	2455.5	2455.5	2445.7	2458.0	2460.4
7.5°	2438.4	2440.8	2431.0	2445.7	2448.2
10°	2413.9	2416.3	2411.4	2426.1	2428.6
12.5°	2384.5	2386.9	2386.9	2404.1	2406.5
15°	2347.7	2350.2	2352.6	2374.7	2377.1
17.5°	2301.1	2308.5	2313.4	2340.4	2345.3
20°	2252.1	2259.5	2269.3	2298.7	2303.6
22.5°	2195.8	2205.6	2222.7	2254.6	2261.9
25°	2137.0	2146.8	2168.8	2205.6	2212.9
27.5°	2070.8	2085.5	2112.4	2151.7	2161.5
30°	2002.2	2016.9	2048.7	2090.4	2105.1
32.5°	1928.6	1948.3	1985.0	2031.6	2046.3
35°	1852.7	1874.7	1913.9	1965.4	1985.0
37.5°	1771.8	1796.3	1842.9	1899.2	1923.7
40°	1688.5	1717.9	1766.9	1833.1	1860.0
42.5°	1605.2	1632.1	1693.4	1764.5	1793.9
45°	1519.4	1551.3	1615.0	1695.8	1725.2
47.5°	1431.2	1463.0	1539.0	1624.8	1651.7
50°	1342.9	1374.8	1460.6	1551.3	1583.1
52.5°	1247.4	1289.0	1387.1	1477.7	1509.6
55°	1161.6	1200.8	1301.3	1404.2	1438.5
57.5°	1063.6	1110.1	1220.4	1328.2	1365.0
60°	972.9	1021.9	1139.5	1249.8	1286.6
62.5°	879.8	933.7	1058.7	1171.4	1213.1
65°	779.3	845.5	977.8	1093.0	1134.6
67.5°	688.6	757.2	896.9	1014.6	1051.3
70°	585.7	669.0	811.2	928.8	970.5
72.5°	497.5	580.8	730.3	845.5	887.1
75°	404.4	495.0	644.5	759.7	796.5
77.5°	311.2	411.7	561.2	649.4	661.7
80°	223.0	328.4	465.6	517.1	534.2
82.5°	156.8	252.4	343.1	377.4	387.2
85°	85.8	166.6	215.7	230.4	230.4
87.5°	36.8	71.1	85.8	88.2	90.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)