

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: P276544

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276544
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7074.3 lumens
Efficiency: N/A
Efficacy: 121.9 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

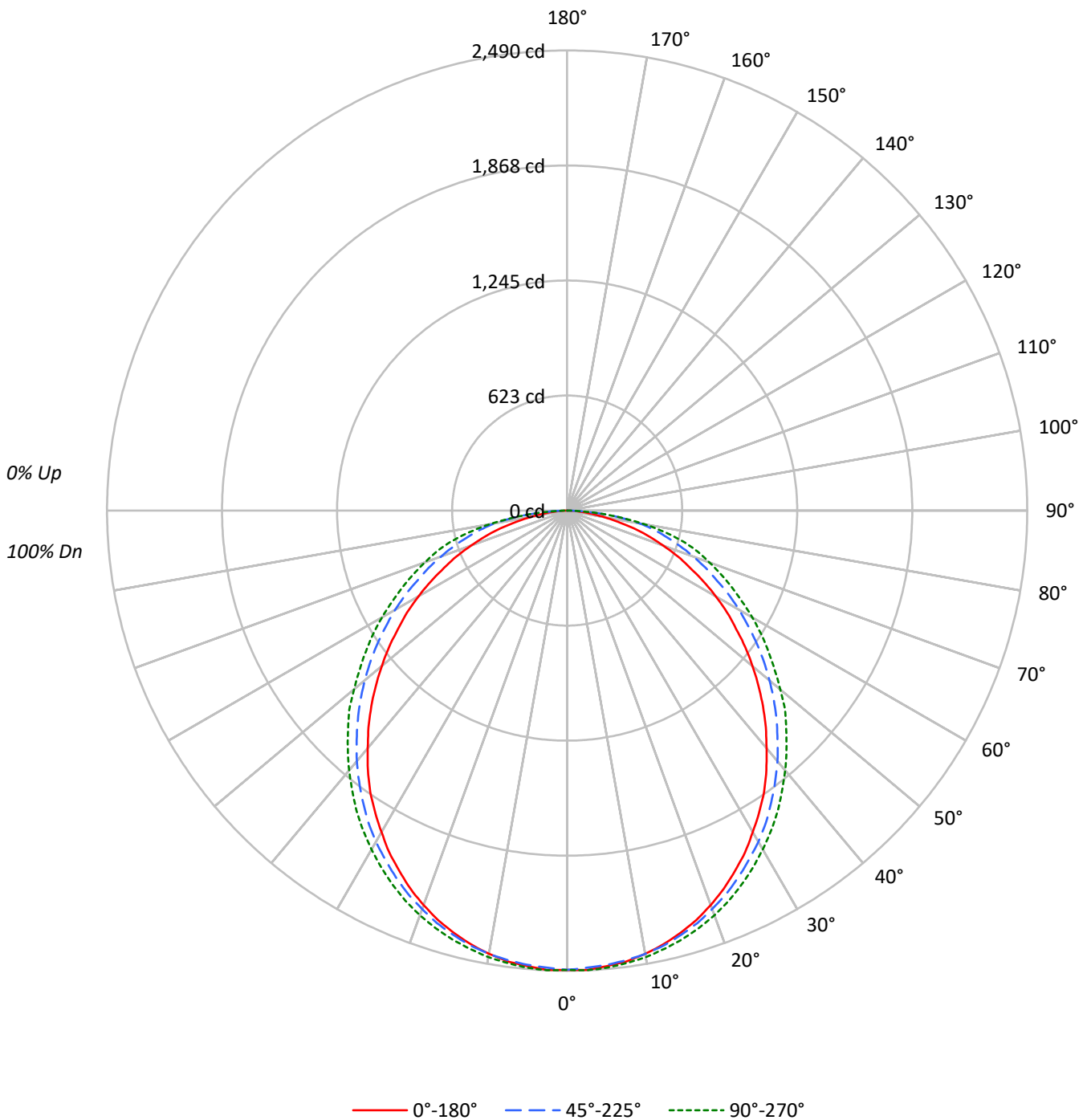
Input Watts (W): 58.032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3344	3344	3344
5°	3341	3332	3354
10°	3328	3328	3352
15°	3296	3312	3346
20°	3253	3285	3336
25°	3192	3253	3316
30°	3121	3215	3289
35°	3052	3163	3263
40°	2948	3110	3224
45°	2852	3048	3190
50°	2742	2991	3151
55°	2620	2936	3121
60°	2497	2890	3114
65°	2339	2840	3133
70°	2166	2855	3218
75°	1939	2909	3399
80°	1567	3082	3326
85°	1179	2706	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.3
10°-20°	672.3	9.5
20°-30°	1010.6	14.3
30°-40°	1203.8	17.0
40°-50°	1232.0	17.4
50°-60°	1109.2	15.7
60°-70°	871.0	12.3
70°-80°	565.3	8.0
80°-90°	174.8	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°	1918.1	27.1
0°-40°	3121.9	44.1
0°-60°	5463.0	77.2
0°-90°	7074.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7074.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2485	2485	2485	2485	2485	
5°	2474	2478	2467	2481	2483	235
15°	2366	2373	2377	2398	2402	667
25°	2150	2168	2191	2227	2234	991
35°	1858	1881	1926	1973	1986	1159
45°	1499	1535	1602	1663	1676	1156
55°	1117	1166	1252	1317	1330	1001
65°	735	791	892	966	984	731
75°	373	445	560	636	654	395
85°	76	142	175	171	171	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.2	2485.2	2485.2	2485.2	2485.2
2.5°	2487.5	2487.5	2476.2	2487.5	2489.7
5°	2474.0	2478.5	2467.3	2480.7	2483.0
7.5°	2460.5	2460.5	2453.8	2467.3	2469.5
10°	2435.8	2438.0	2435.8	2451.5	2453.8
12.5°	2404.3	2408.8	2411.1	2426.8	2429.1
15°	2366.1	2372.9	2377.4	2397.6	2402.1
17.5°	2323.4	2330.2	2341.4	2363.9	2368.4
20°	2271.8	2280.8	2294.2	2323.4	2330.2
22.5°	2215.6	2224.6	2247.0	2274.0	2285.2
25°	2150.4	2168.4	2190.9	2226.8	2233.6
27.5°	2085.3	2101.0	2130.2	2168.4	2177.4
30°	2008.9	2033.6	2069.5	2107.7	2116.7
32.5°	1934.7	1959.4	2002.1	2042.6	2053.8
35°	1858.3	1880.8	1925.7	1972.9	1986.4
37.5°	1770.7	1799.9	1849.3	1896.5	1910.0
40°	1678.5	1714.5	1770.7	1820.1	1835.8
42.5°	1590.9	1629.1	1685.3	1739.2	1757.2
45°	1498.8	1534.7	1602.1	1662.8	1676.3
47.5°	1404.4	1444.9	1516.8	1577.4	1599.9
50°	1310.0	1352.7	1429.1	1492.0	1505.5
52.5°	1215.7	1260.6	1341.5	1408.9	1415.6
55°	1116.8	1166.2	1251.6	1316.8	1330.3
57.5°	1026.9	1069.6	1161.7	1229.1	1244.9
60°	928.0	975.2	1074.1	1137.0	1157.2
62.5°	833.7	883.1	986.5	1049.4	1067.3
65°	734.8	791.0	892.1	966.2	984.2
67.5°	649.4	703.3	811.2	883.1	901.1
70°	550.5	611.2	725.8	799.9	817.9
72.5°	465.1	528.1	642.7	714.6	741.5
75°	373.0	444.9	559.5	635.9	653.9
77.5°	283.1	366.3	483.1	541.5	541.5
80°	202.2	289.9	397.7	424.7	429.2
82.5°	132.6	218.0	294.4	292.1	292.1
85°	76.4	141.6	175.3	170.8	170.8
87.5°	29.2	58.4	62.9	62.9	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)