

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: P260924

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7076.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

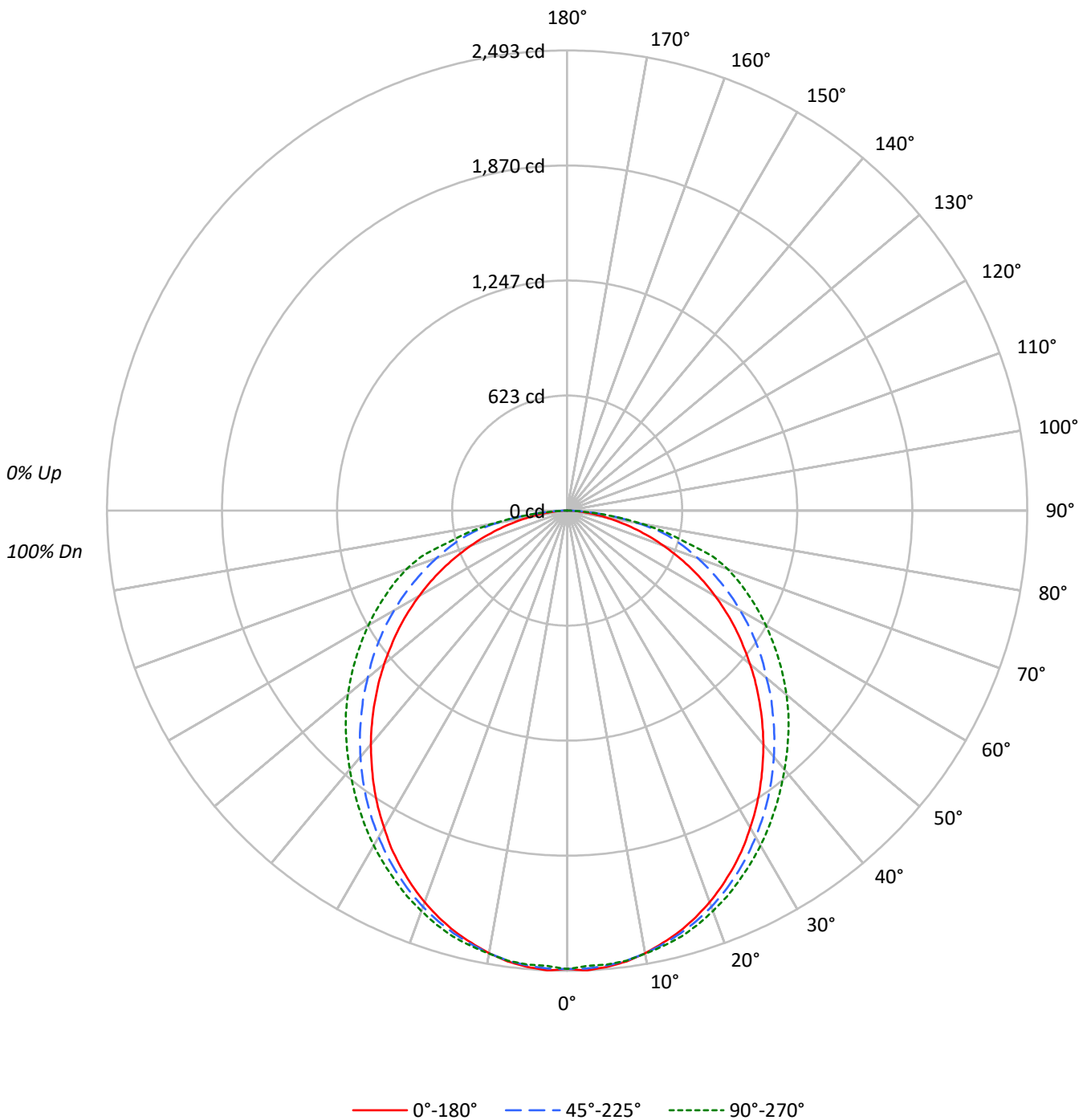
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3341	3341	3341
5°	3351	3341	3334
10°	3327	3327	3330
15°	3287	3304	3327
20°	3233	3271	3306
25°	3165	3226	3280
30°	3083	3173	3256
35°	2996	3120	3231
40°	2906	3059	3217
45°	2807	3001	3227
50°	2708	2951	3246
55°	2609	2932	3279
60°	2491	2914	3345
65°	2360	2916	3456
70°	2183	2964	3641
75°	1952	3098	3464
80°	1633	2966	3172
85°	1235	2282	2169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	3.3
10°-20°	667.9	9.4
20°-30°	998.5	14.1
30°-40°	1184.5	16.7
40°-50°	1219.1	17.2
50°-60°	1118.4	15.8
60°-70°	904.3	12.8
70°-80°	586.9	8.3
80°-90°	161.8	2.3
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°	1901.0	26.9
0°-40°	3085.5	43.6
0°-60°	5423.0	76.6
0°-90°	7076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2483	2483	2483	2483	2483	
5°	2481	2464	2474	2471	2469	235
15°	2360	2350	2372	2382	2389	665
25°	2132	2134	2173	2193	2210	981
35°	1824	1839	1899	1941	1967	1141
45°	1475	1500	1577	1652	1696	1139
55°	1112	1146	1250	1352	1398	993
65°	741	785	916	1037	1085	733
75°	376	446	596	666	666	399
85°	80	136	148	143	140	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2483.3	2483.3	2483.3	2483.3	2483.3
2.5°	2493.0	2473.6	2483.3	2480.9	2468.8
5°	2480.9	2463.9	2473.6	2471.2	2468.8
7.5°	2463.9	2447.0	2459.1	2456.7	2459.1
10°	2434.9	2420.3	2434.9	2437.3	2437.3
12.5°	2398.5	2386.4	2405.8	2410.6	2415.5
15°	2359.7	2350.1	2371.9	2381.6	2388.8
17.5°	2311.3	2304.0	2330.7	2342.8	2352.5
20°	2258.0	2255.6	2284.6	2296.8	2308.9
22.5°	2197.4	2197.4	2231.3	2245.9	2262.8
25°	2132.0	2134.4	2173.2	2192.6	2209.5
27.5°	2061.8	2064.2	2110.2	2134.4	2153.8
30°	1984.2	1993.9	2042.4	2073.9	2095.7
32.5°	1906.7	1918.8	1972.1	2008.5	2032.7
35°	1824.3	1838.9	1899.4	1940.6	1967.3
37.5°	1739.5	1756.5	1821.9	1867.9	1899.4
40°	1654.7	1674.1	1741.9	1795.3	1831.6
42.5°	1565.1	1586.9	1662.0	1725.0	1763.8
45°	1475.4	1499.7	1577.2	1652.3	1695.9
47.5°	1385.8	1414.9	1497.3	1579.6	1625.7
50°	1293.7	1322.8	1410.0	1504.5	1550.6
52.5°	1201.7	1235.6	1332.5	1429.4	1475.4
55°	1112.0	1146.0	1250.1	1351.9	1397.9
57.5°	1020.0	1053.9	1167.8	1274.4	1320.4
60°	925.5	964.3	1083.0	1192.0	1242.9
62.5°	833.4	874.6	1000.6	1116.9	1165.3
65°	741.4	785.0	915.8	1036.9	1085.4
67.5°	646.9	697.7	833.4	957.0	1007.9
70°	554.8	610.5	753.5	877.0	925.5
72.5°	465.2	525.7	673.5	799.5	828.6
75°	375.5	445.8	596.0	666.3	666.3
77.5°	290.7	368.3	508.8	535.4	550.0
80°	210.8	295.6	382.8	414.3	409.4
82.5°	140.5	225.3	273.8	273.8	266.5
85°	80.0	135.7	147.8	142.9	140.5
87.5°	33.9	50.9	46.0	36.3	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)