

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: P261204

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7259.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

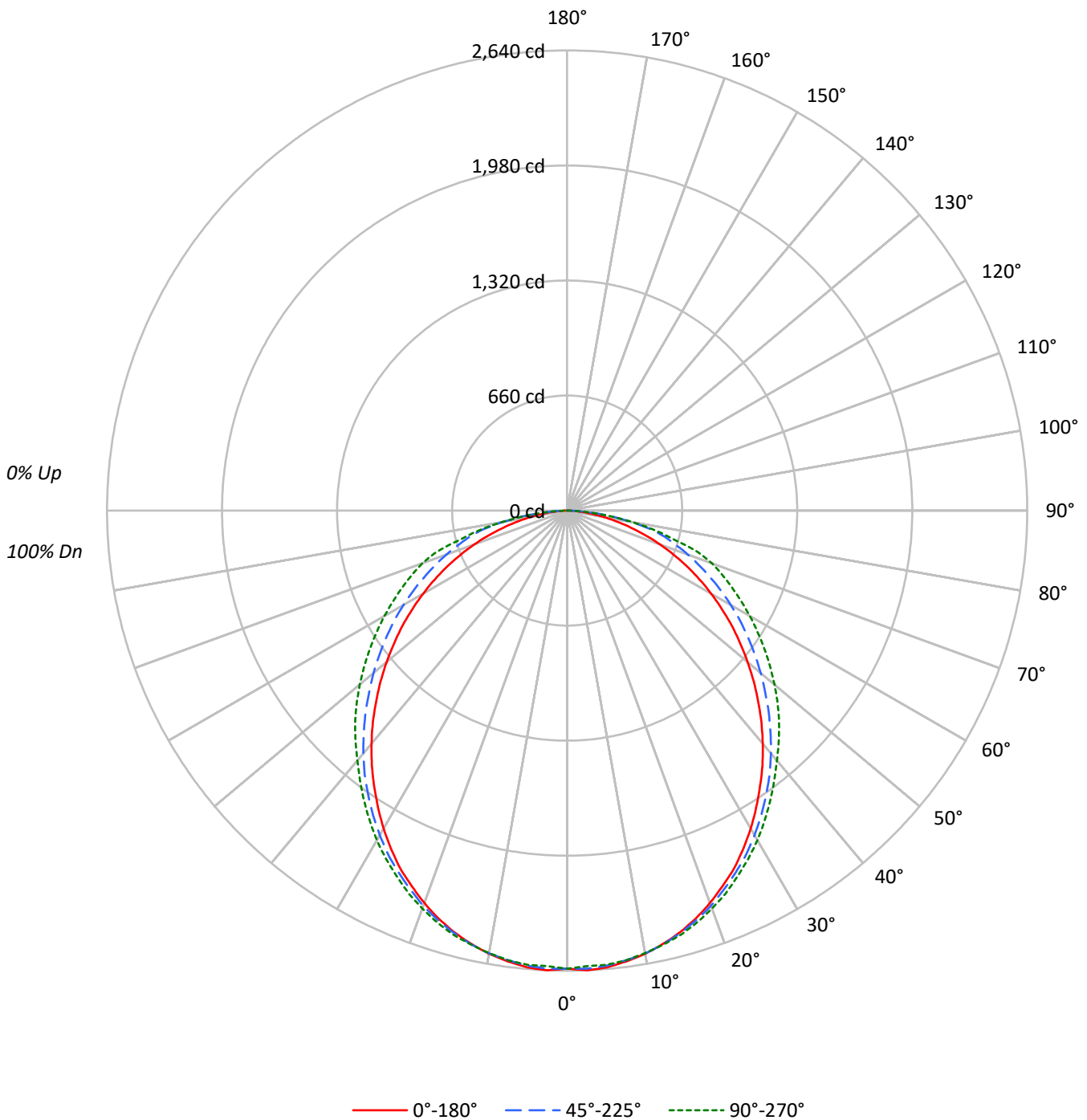
Input Watts (W): 58.032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3536	3536	3536
5°	3553	3539	3533
10°	3528	3524	3521
15°	3489	3496	3509
20°	3431	3455	3479
25°	3363	3399	3435
30°	3272	3340	3392
35°	3170	3269	3336
40°	3067	3195	3288
45°	2950	3111	3272
50°	2831	3033	3251
55°	2708	2969	3241
60°	2567	2918	3256
65°	2415	2884	3322
70°	2223	2898	3478
75°	1971	3001	3240
80°	1647	2844	2920
85°	1230	2274	2089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	3.4
10°-20°	706.6	9.7
20°-30°	1053.0	14.5
30°-40°	1239.6	17.1
40°-50°	1259.7	17.4
50°-60°	1132.6	15.6
60°-70°	894.8	12.3
70°-80°	567.6	7.8
80°-90°	156.7	2.2
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°	2008.1	27.7
0°-40°	3247.7	44.7
0°-60°	5640.0	77.7
0°-90°	7259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2628	2628	2628	2628	2628	
5°	2630	2609	2621	2616	2616	249
15°	2505	2493	2510	2517	2519	706
25°	2266	2263	2290	2304	2314	1042
35°	1930	1942	1990	2012	2031	1207
45°	1551	1572	1635	1684	1720	1196
55°	1154	1184	1266	1348	1382	1031
65°	758	797	906	1005	1043	751
75°	379	444	577	628	623	404
85°	80	138	147	135	135	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2627.9	2627.9	2627.9	2627.9	2627.9
2.5°	2640.0	2620.6	2630.3	2625.5	2615.8
5°	2630.3	2608.6	2620.6	2615.8	2615.8
7.5°	2608.6	2591.7	2601.3	2598.9	2601.3
10°	2582.0	2565.1	2579.6	2579.6	2577.2
12.5°	2545.8	2531.3	2548.2	2548.2	2550.6
15°	2504.7	2492.6	2509.5	2516.8	2519.2
17.5°	2454.0	2441.9	2463.6	2470.9	2478.1
20°	2396.0	2391.2	2412.9	2420.2	2429.8
22.5°	2330.8	2330.8	2352.5	2362.2	2376.7
25°	2265.6	2263.2	2289.7	2304.2	2313.9
27.5°	2188.3	2190.7	2224.5	2239.0	2251.1
30°	2106.2	2111.0	2149.7	2166.6	2183.5
32.5°	2019.2	2028.9	2072.4	2091.7	2108.6
35°	1929.9	1941.9	1990.2	2012.0	2031.3
37.5°	1840.5	1857.4	1908.1	1929.9	1951.6
40°	1746.3	1760.8	1818.8	1845.3	1871.9
42.5°	1649.7	1669.0	1727.0	1765.6	1797.0
45°	1550.6	1572.4	1635.2	1683.5	1719.7
47.5°	1451.6	1480.6	1541.0	1606.2	1637.6
50°	1352.6	1381.6	1449.2	1521.7	1553.1
52.5°	1251.1	1280.1	1357.4	1432.3	1466.1
55°	1154.5	1183.5	1265.6	1347.8	1381.6
57.5°	1053.1	1084.5	1176.3	1260.8	1294.6
60°	954.1	985.5	1084.5	1173.9	1210.1
62.5°	857.4	891.3	995.1	1089.3	1125.5
65°	758.4	797.1	905.8	1004.8	1043.4
67.5°	661.8	705.3	818.8	922.7	963.7
70°	565.2	615.9	736.7	843.0	884.0
72.5°	471.0	526.5	654.6	760.8	782.6
75°	379.2	444.4	577.3	628.0	623.2
77.5°	292.3	364.7	490.3	500.0	514.5
80°	212.6	292.3	367.1	386.5	376.8
82.5°	140.1	219.8	263.3	253.6	251.2
85°	79.7	137.7	147.3	135.3	135.3
87.5°	33.8	55.6	48.3	36.2	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)