

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: P260599

Luminaire Tested: **24CZ-LD5-75-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260599
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

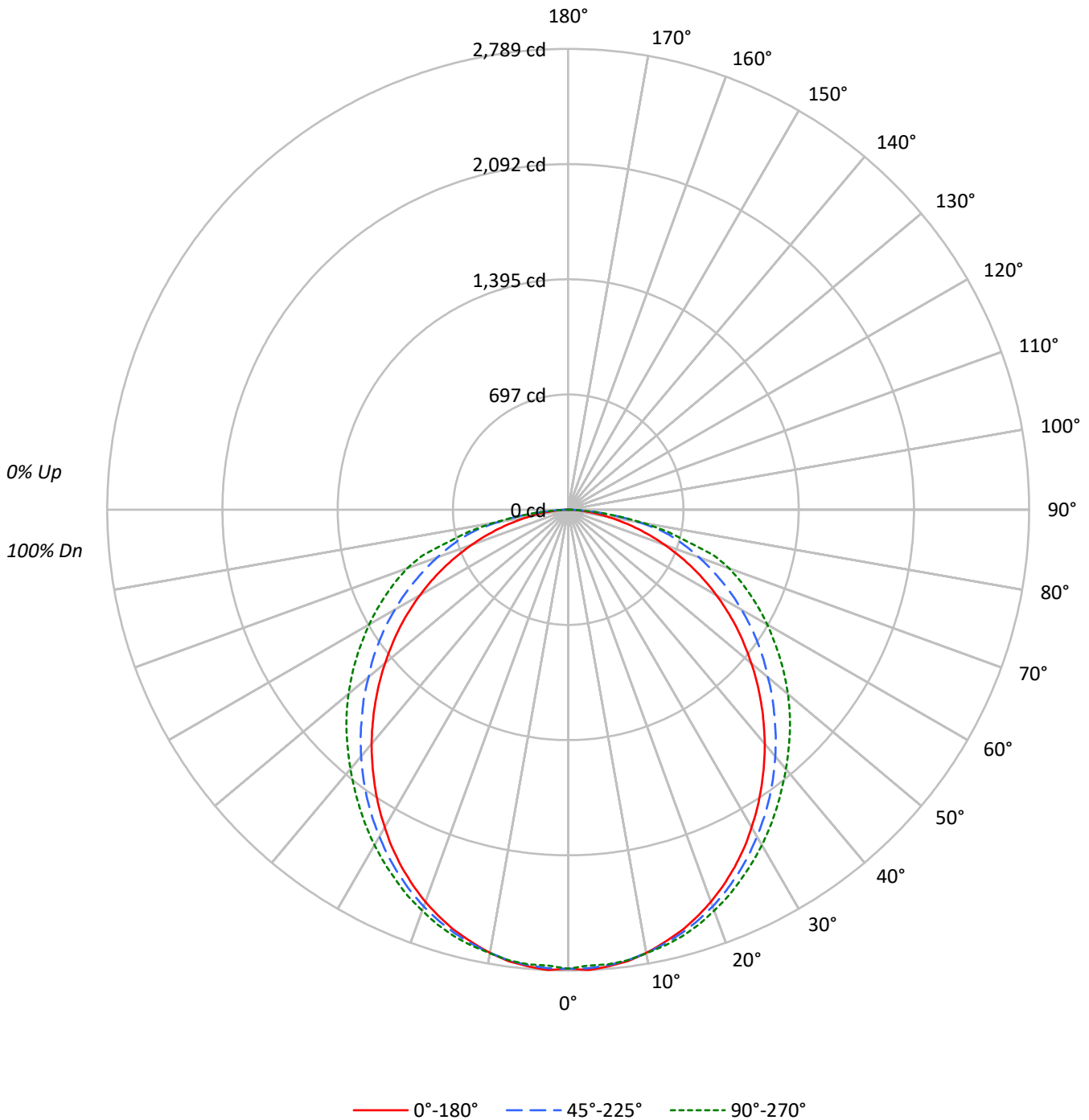
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3738	3738	3738
5°	3748	3737	3730
10°	3721	3721	3725
15°	3677	3696	3722
20°	3616	3659	3698
25°	3540	3609	3669
30°	3448	3549	3642
35°	3352	3490	3614
40°	3251	3422	3599
45°	3140	3357	3610
50°	3029	3301	3630
55°	2918	3280	3668
60°	2786	3260	3741
65°	2640	3261	3865
70°	2441	3316	4072
75°	2184	3466	3874
80°	1827	3318	3549
85°	1380	2552	2427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	3.3
10°-20°	747.1	9.4
20°-30°	1116.8	14.1
30°-40°	1324.9	16.7
40°-50°	1363.7	17.2
50°-60°	1251.0	15.8
60°-70°	1011.5	12.8
70°-80°	656.5	8.3
80°-90°	181.0	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°	2126.4	26.9
0°-40°	3451.3	43.6
0°-60°	6066.0	76.6
0°-90°	7915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2775	2756	2767	2764	2762	263
15°	2640	2629	2653	2664	2672	744
25°	2385	2388	2431	2453	2472	1098
35°	2041	2057	2125	2171	2200	1276
45°	1650	1678	1764	1848	1897	1274
55°	1244	1282	1398	1512	1564	1111
65°	829	878	1024	1160	1214	820
75°	420	499	667	745	745	446
85°	89	152	165	160	157	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2777.8	2777.8	2777.8	2777.8	2777.8
2.5°	2788.6	2766.9	2777.8	2775.0	2761.5
5°	2775.0	2756.1	2766.9	2764.2	2761.5
7.5°	2756.1	2737.1	2750.7	2747.9	2750.7
10°	2723.6	2707.3	2723.6	2726.3	2726.3
12.5°	2682.9	2669.4	2691.0	2696.5	2701.9
15°	2639.5	2628.7	2653.1	2663.9	2672.1
17.5°	2585.3	2577.2	2607.0	2620.6	2631.4
20°	2525.7	2523.0	2555.5	2569.1	2582.6
22.5°	2458.0	2458.0	2495.9	2512.2	2531.1
25°	2384.8	2387.5	2430.9	2452.6	2471.5
27.5°	2306.2	2308.9	2360.4	2387.5	2409.2
30°	2219.5	2230.3	2284.5	2319.8	2344.2
32.5°	2132.8	2146.3	2205.9	2246.6	2273.7
35°	2040.6	2056.9	2124.6	2170.7	2200.5
37.5°	1945.8	1964.8	2037.9	2089.4	2124.6
40°	1850.9	1872.6	1948.5	2008.1	2048.8
42.5°	1750.7	1775.1	1859.1	1929.5	1972.9
45°	1650.4	1677.5	1764.2	1848.2	1897.0
47.5°	1550.1	1582.6	1674.8	1766.9	1818.4
50°	1447.1	1479.7	1577.2	1682.9	1734.4
52.5°	1344.2	1382.1	1490.5	1598.9	1650.4
55°	1243.9	1281.8	1398.4	1512.2	1563.7
57.5°	1140.9	1178.9	1306.2	1425.5	1477.0
60°	1035.2	1078.6	1211.4	1333.3	1390.2
62.5°	932.2	978.3	1119.2	1249.3	1303.5
65°	829.3	878.0	1024.4	1159.9	1214.1
67.5°	723.6	780.5	932.2	1070.5	1127.4
70°	620.6	682.9	842.8	981.0	1035.2
72.5°	520.3	588.1	753.4	894.3	926.8
75°	420.1	498.6	666.7	745.3	745.3
77.5°	325.2	411.9	569.1	598.9	615.2
80°	235.8	330.6	428.2	463.4	458.0
82.5°	157.2	252.0	306.2	306.2	298.1
85°	89.4	151.8	165.3	159.9	157.2
87.5°	37.9	56.9	51.5	40.7	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)