

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: P260785

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260785
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-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7362.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

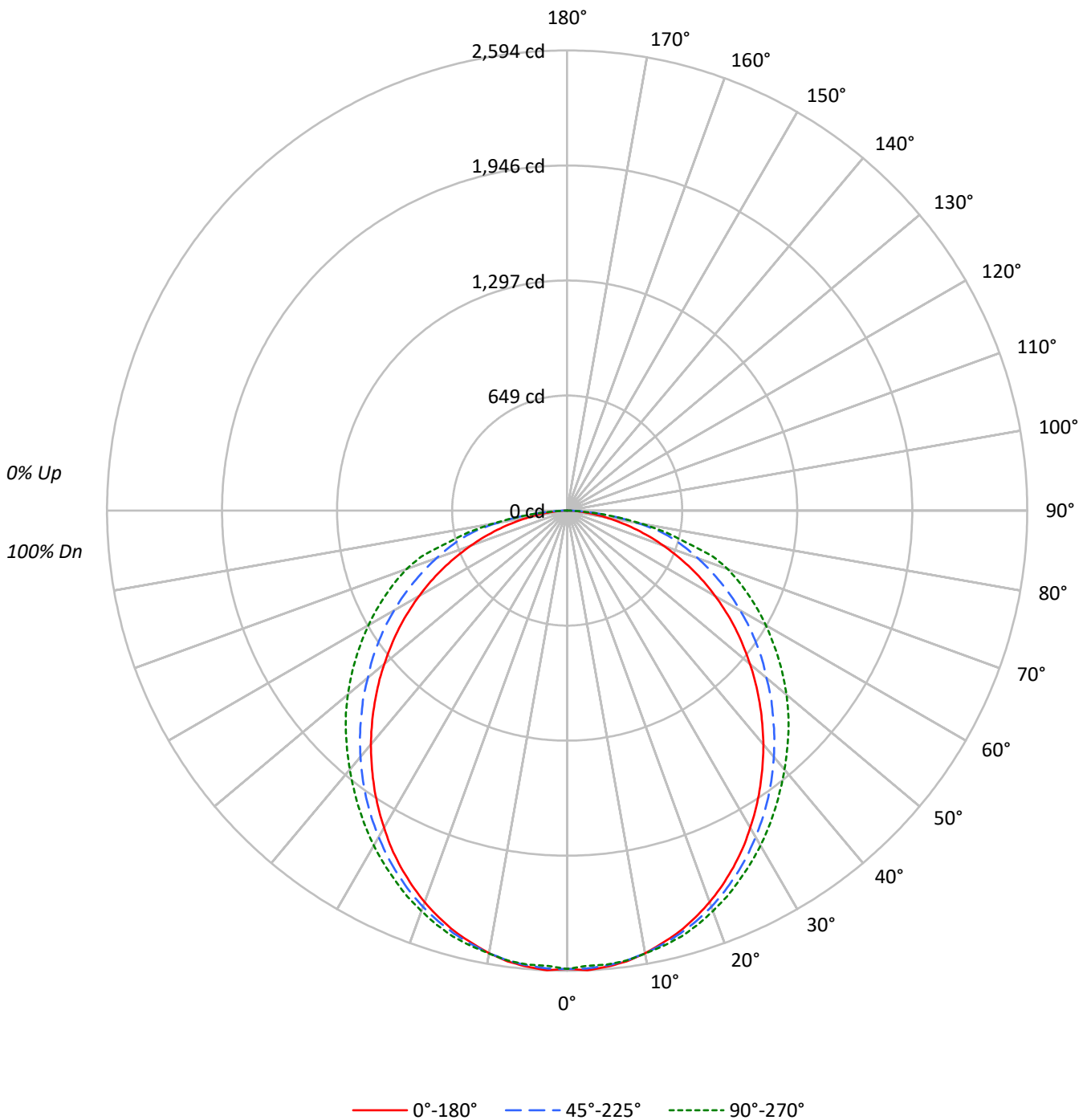
Input Watts (W): 58.683
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3476	3476	3476
5°	3486	3476	3469
10°	3461	3461	3465
15°	3420	3437	3462
20°	3364	3403	3440
25°	3293	3357	3413
30°	3207	3301	3388
35°	3118	3246	3362
40°	3024	3183	3347
45°	2921	3123	3358
50°	2817	3071	3377
55°	2714	3051	3412
60°	2591	3032	3480
65°	2456	3033	3595
70°	2271	3084	3788
75°	2031	3224	3604
80°	1699	3086	3301
85°	1284	2374	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	3.3
10°-20°	694.9	9.4
20°-30°	1038.8	14.1
30°-40°	1232.4	16.7
40°-50°	1268.4	17.2
50°-60°	1163.6	15.8
60°-70°	940.8	12.8
70°-80°	610.6	8.3
80°-90°	168.4	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°	1977.8	26.9
0°-40°	3210.2	43.6
0°-60°	5642.2	76.6
0°-90°	7362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2584	2584	2584	2584	2584	
5°	2581	2564	2574	2571	2569	245
15°	2455	2445	2468	2478	2485	692
25°	2218	2221	2261	2281	2299	1021
35°	1898	1913	1976	2019	2047	1187
45°	1535	1560	1641	1719	1764	1185
55°	1157	1192	1301	1406	1454	1034
65°	771	817	953	1079	1129	762
75°	391	464	620	693	693	415
85°	83	141	154	149	146	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2593.8	2573.6	2583.7	2581.2	2568.6
5°	2581.2	2563.5	2573.6	2571.1	2568.6
7.5°	2563.5	2545.9	2558.5	2556.0	2558.5
10°	2533.3	2518.1	2533.3	2535.8	2535.8
12.5°	2495.5	2482.9	2503.0	2508.1	2513.1
15°	2455.1	2445.0	2467.7	2477.8	2485.4
17.5°	2404.7	2397.2	2424.9	2437.5	2447.6
20°	2349.3	2346.7	2377.0	2389.6	2402.2
22.5°	2286.2	2286.2	2321.5	2336.7	2354.3
25°	2218.2	2220.7	2261.0	2281.2	2298.8
27.5°	2145.1	2147.6	2195.5	2220.7	2240.9
30°	2064.4	2074.5	2124.9	2157.7	2180.4
32.5°	1983.8	1996.4	2051.8	2089.6	2114.8
35°	1898.1	1913.2	1976.2	2019.1	2046.8
37.5°	1809.8	1827.5	1895.5	1943.4	1976.2
40°	1721.6	1741.8	1812.4	1867.8	1905.6
42.5°	1628.3	1651.0	1729.2	1794.7	1835.0
45°	1535.1	1560.3	1641.0	1719.1	1764.5
47.5°	1441.8	1472.1	1557.8	1643.5	1691.4
50°	1346.0	1376.3	1467.0	1565.3	1613.2
52.5°	1250.2	1285.5	1386.4	1487.2	1535.1
55°	1157.0	1192.3	1300.7	1406.5	1454.4
57.5°	1061.2	1096.5	1215.0	1325.9	1373.8
60°	962.9	1003.2	1126.7	1240.2	1293.1
62.5°	867.1	910.0	1041.0	1162.0	1212.4
65°	771.3	816.7	952.8	1078.8	1129.3
67.5°	673.0	726.0	867.1	995.7	1048.6
70°	577.2	635.2	783.9	912.5	962.9
72.5°	484.0	547.0	700.7	831.8	862.1
75°	390.7	463.8	620.1	693.2	693.2
77.5°	302.5	383.1	529.3	557.1	572.2
80°	219.3	307.5	398.3	431.0	426.0
82.5°	146.2	234.4	284.8	284.8	277.3
85°	83.2	141.2	153.8	148.7	146.2
87.5°	35.3	52.9	47.9	37.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)