

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: P260899

Luminaire Tested: **24CZ-LD5-60-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260899
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-LD5-60-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5725.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

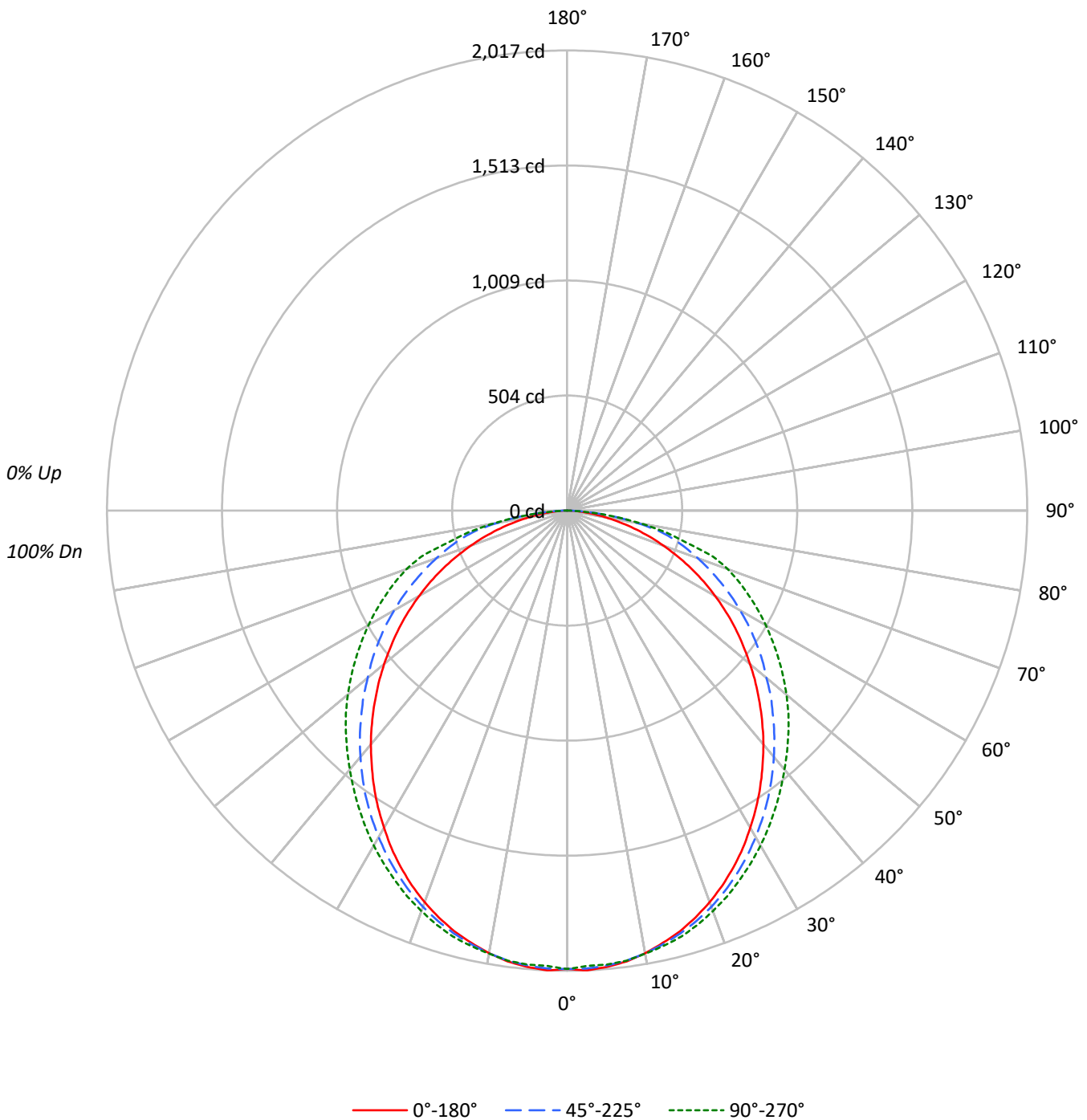
Input Watts (W): 46.314
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2703	2703	2703
5°	2711	2703	2698
10°	2692	2692	2694
15°	2659	2673	2692
20°	2616	2647	2675
25°	2561	2610	2654
30°	2494	2567	2634
35°	2424	2524	2614
40°	2351	2475	2603
45°	2271	2428	2611
50°	2191	2388	2626
55°	2111	2373	2653
60°	2015	2358	2706
65°	1910	2359	2796
70°	1766	2398	2946
75°	1579	2507	2802
80°	1321	2400	2567
85°	999	1846	1755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	3.3
10°-20°	540.4	9.4
20°-30°	807.8	14.1
30°-40°	958.3	16.7
40°-50°	986.4	17.2
50°-60°	904.9	15.8
60°-70°	731.6	12.8
70°-80°	474.8	8.3
80°-90°	130.9	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°	1538.1	26.9
0°-40°	2496.4	43.6
0°-60°	4387.6	76.6
0°-90°	5725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2007	1994	2001	1999	1997	190
15°	1909	1901	1919	1927	1933	538
25°	1725	1727	1758	1774	1788	794
35°	1476	1488	1537	1570	1592	923
45°	1194	1213	1276	1337	1372	921
55°	900	927	1011	1094	1131	804
65°	600	635	741	839	878	593
75°	304	361	482	539	539	323
85°	65	110	120	116	114	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.2	2009.2	2009.2	2009.2	2009.2
2.5°	2017.0	2001.3	2009.2	2007.2	1997.4
5°	2007.2	1993.5	2001.3	1999.4	1997.4
7.5°	1993.5	1979.8	1989.6	1987.6	1989.6
10°	1970.0	1958.2	1970.0	1971.9	1971.9
12.5°	1940.6	1930.8	1946.5	1950.4	1954.3
15°	1909.2	1901.4	1919.0	1926.9	1932.7
17.5°	1870.0	1864.1	1885.7	1895.5	1903.3
20°	1826.9	1824.9	1848.4	1858.2	1868.0
22.5°	1777.9	1777.9	1805.3	1817.1	1830.8
25°	1725.0	1726.9	1758.3	1774.0	1787.7
27.5°	1668.1	1670.1	1707.3	1726.9	1742.6
30°	1605.4	1613.2	1652.4	1677.9	1695.5
32.5°	1542.7	1552.5	1595.6	1625.0	1644.6
35°	1476.0	1487.8	1536.8	1570.1	1591.7
37.5°	1407.4	1421.1	1474.1	1511.3	1536.8
40°	1338.8	1354.5	1409.4	1452.5	1481.9
42.5°	1266.3	1283.9	1344.7	1395.6	1427.0
45°	1193.7	1213.3	1276.1	1336.8	1372.1
47.5°	1121.2	1144.7	1211.4	1278.0	1315.3
50°	1046.7	1070.3	1140.8	1217.3	1254.5
52.5°	972.2	999.7	1078.1	1156.5	1193.7
55°	899.7	927.2	1011.4	1093.8	1131.0
57.5°	825.2	852.7	944.8	1031.1	1068.3
60°	748.8	780.1	876.2	964.4	1005.6
62.5°	674.3	707.6	809.6	903.6	942.8
65°	599.8	635.1	740.9	839.0	878.2
67.5°	523.4	564.5	674.3	774.3	815.4
70°	448.9	494.0	609.6	709.6	748.8
72.5°	376.4	425.4	544.9	646.9	670.4
75°	303.8	360.7	482.2	539.0	539.0
77.5°	235.2	297.9	411.6	433.2	445.0
80°	170.5	239.1	309.7	335.2	331.3
82.5°	113.7	182.3	221.5	221.5	215.6
85°	64.7	109.8	119.6	115.7	113.7
87.5°	27.4	41.2	37.2	29.4	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)