

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: P260672

Luminaire Tested: **24CZ-LD5-75-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260672
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-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5864.6 lumens
Efficiency: N/A
Efficacy: 98.2 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

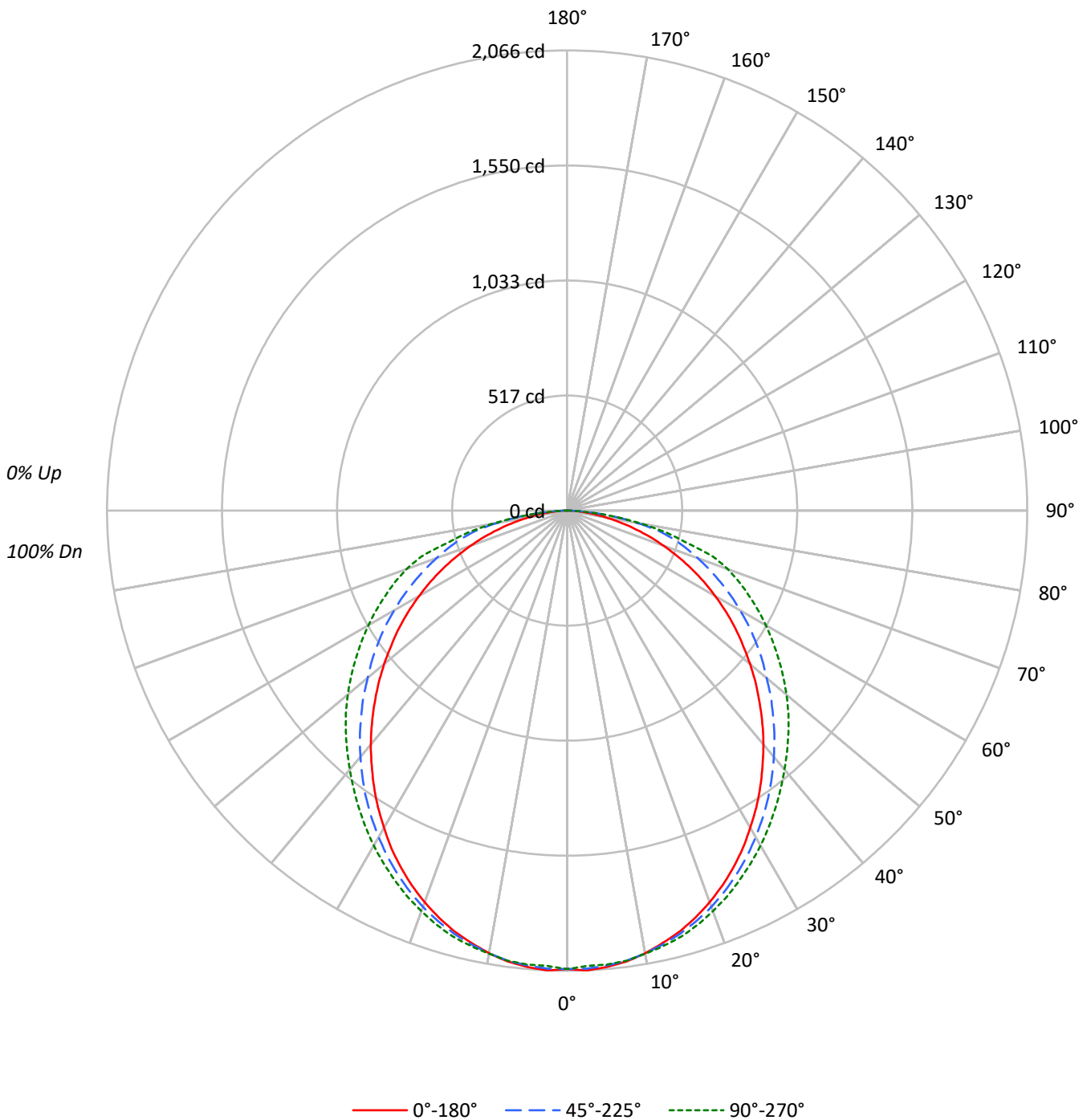
Input Watts (W): 59.747292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2769	2769	2769
5°	2777	2769	2764
10°	2757	2757	2760
15°	2724	2738	2758
20°	2680	2711	2740
25°	2623	2674	2719
30°	2555	2630	2699
35°	2484	2586	2678
40°	2409	2536	2666
45°	2327	2487	2675
50°	2244	2446	2690
55°	2162	2430	2718
60°	2064	2415	2772
65°	1956	2416	2864
70°	1809	2457	3017
75°	1618	2568	2871
80°	1354	2459	2629
85°	1024	1891	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.3
10°-20°	553.5	9.4
20°-30°	827.5	14.1
30°-40°	981.7	16.7
40°-50°	1010.4	17.2
50°-60°	926.9	15.8
60°-70°	749.5	12.8
70°-80°	486.4	8.3
80°-90°	134.1	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°	1575.5	26.9
0°-40°	2557.2	43.6
0°-60°	4494.6	76.6
0°-90°	5864.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5864.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2056	2042	2050	2048	2046	195
15°	1956	1948	1966	1974	1980	551
25°	1767	1769	1801	1817	1831	813
35°	1512	1524	1574	1608	1630	946
45°	1223	1243	1307	1369	1406	944
55°	922	950	1036	1120	1159	823
65°	614	651	759	859	900	607
75°	311	370	494	552	552	331
85°	66	112	122	118	116	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.2	2058.2	2058.2	2058.2	2058.2
2.5°	2066.2	2050.1	2058.2	2056.1	2046.1
5°	2056.1	2042.1	2050.1	2048.1	2046.1
7.5°	2042.1	2028.0	2038.1	2036.1	2038.1
10°	2018.0	2006.0	2018.0	2020.0	2020.0
12.5°	1987.9	1977.8	1993.9	1997.9	2001.9
15°	1955.8	1947.7	1965.8	1973.8	1979.8
17.5°	1915.6	1909.6	1931.7	1941.7	1949.7
20°	1871.4	1869.4	1893.5	1903.5	1913.6
22.5°	1821.2	1821.2	1849.3	1861.4	1875.4
25°	1767.0	1769.0	1801.1	1817.2	1831.3
27.5°	1708.8	1710.8	1748.9	1769.0	1785.1
30°	1644.5	1652.5	1692.7	1718.8	1736.9
32.5°	1580.3	1590.3	1634.5	1664.6	1684.7
35°	1512.0	1524.0	1574.2	1608.4	1630.5
37.5°	1441.7	1455.8	1510.0	1548.1	1574.2
40°	1371.4	1387.5	1443.7	1487.9	1518.0
42.5°	1297.1	1315.2	1377.5	1429.7	1461.8
45°	1222.8	1242.9	1307.2	1369.4	1405.6
47.5°	1148.6	1172.6	1240.9	1309.2	1347.3
50°	1072.2	1096.3	1168.6	1246.9	1285.1
52.5°	995.9	1024.1	1104.4	1184.7	1222.8
55°	921.7	949.8	1036.1	1120.4	1158.6
57.5°	845.4	873.5	967.8	1056.2	1094.3
60°	767.0	799.2	897.6	987.9	1030.1
62.5°	690.7	724.9	829.3	925.7	965.8
65°	614.4	650.6	759.0	859.4	899.6
67.5°	536.1	578.3	690.7	793.1	835.3
70°	459.8	506.0	624.5	726.9	767.0
72.5°	385.5	435.7	558.2	662.6	686.7
75°	311.2	369.5	494.0	552.2	552.2
77.5°	241.0	305.2	421.7	443.8	455.8
80°	174.7	245.0	317.3	343.4	339.3
82.5°	116.5	186.7	226.9	226.9	220.9
85°	66.3	112.4	122.5	118.5	116.5
87.5°	28.1	42.2	38.2	30.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)