

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: P260765

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260765
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-LD5-65-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5997.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

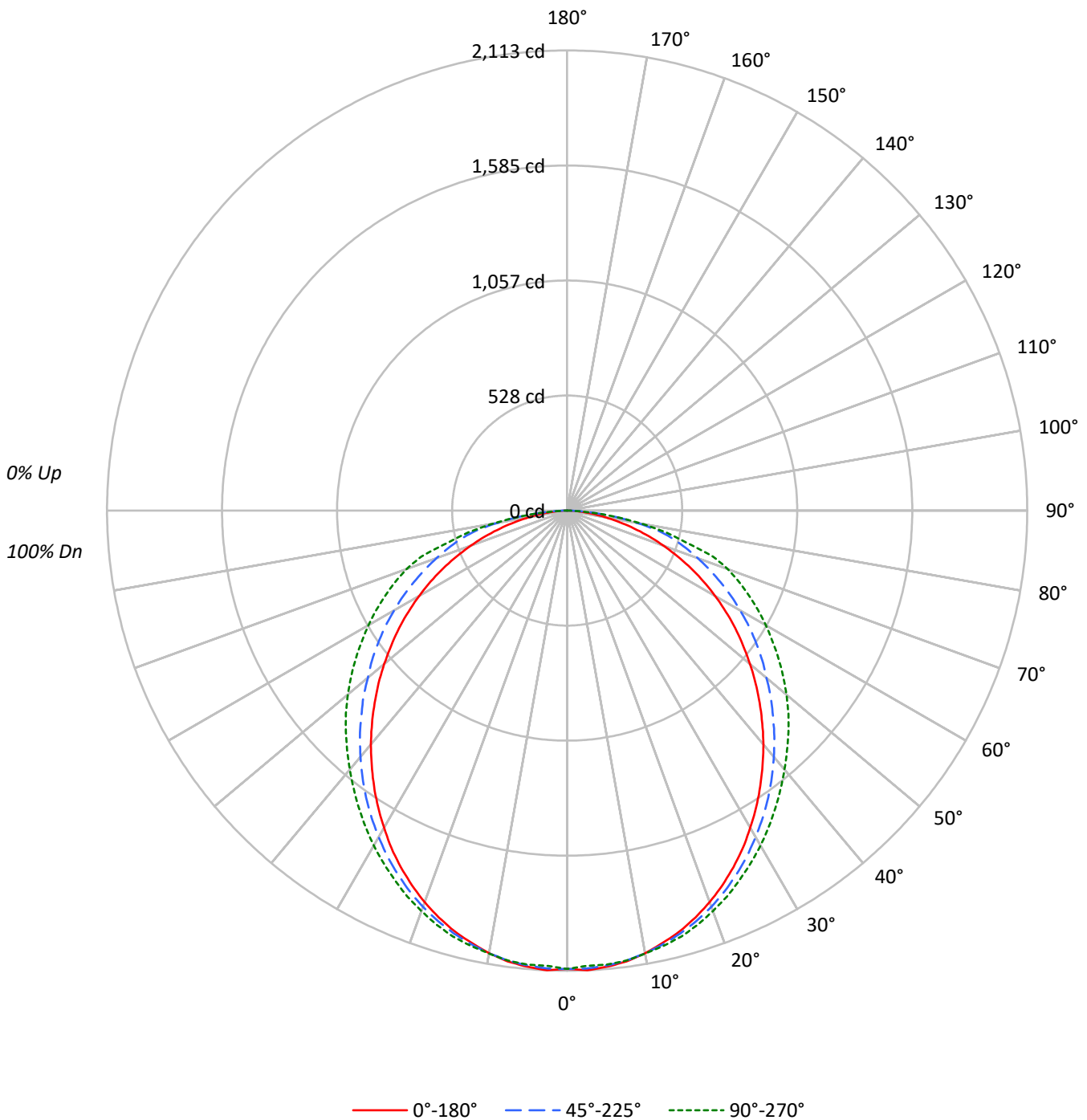
Input Watts (W): 48.918
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2832	2832	2832
5°	2840	2831	2826
10°	2819	2819	2822
15°	2786	2800	2820
20°	2740	2772	2802
25°	2682	2734	2780
30°	2613	2689	2759
35°	2540	2644	2739
40°	2463	2593	2726
45°	2379	2543	2735
50°	2295	2501	2751
55°	2211	2485	2779
60°	2111	2470	2834
65°	2000	2471	2929
70°	1850	2512	3086
75°	1655	2626	2936
80°	1384	2514	2689
85°	1047	1934	1839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	3.3
10°-20°	566.0	9.4
20°-30°	846.2	14.1
30°-40°	1003.9	16.7
40°-50°	1033.2	17.2
50°-60°	947.8	15.8
60°-70°	766.4	12.8
70°-80°	497.4	8.3
80°-90°	137.1	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°	1611.1	26.9
0°-40°	2615.0	43.6
0°-60°	4596.1	76.6
0°-90°	5997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2103	2088	2096	2094	2092	200
15°	2000	1992	2010	2018	2025	563
25°	1807	1809	1842	1858	1873	832
35°	1546	1558	1610	1645	1667	967
45°	1250	1271	1337	1400	1437	965
55°	942	971	1060	1146	1185	842
65°	628	665	776	879	920	621
75°	318	378	505	565	565	338
85°	68	115	125	121	119	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.6	2104.6	2104.6	2104.6	2104.6
2.5°	2112.8	2096.4	2104.6	2102.6	2092.3
5°	2102.6	2088.2	2096.4	2094.4	2092.3
7.5°	2088.2	2073.8	2084.1	2082.0	2084.1
10°	2063.6	2051.2	2063.6	2065.6	2065.6
12.5°	2032.8	2022.5	2038.9	2043.0	2047.1
15°	1999.9	1991.7	2010.2	2018.4	2024.6
17.5°	1958.9	1952.7	1975.3	1985.5	1993.8
20°	1913.7	1911.6	1936.3	1946.5	1956.8
22.5°	1862.3	1862.3	1891.1	1903.4	1917.8
25°	1806.9	1809.0	1841.8	1858.2	1872.6
27.5°	1747.4	1749.4	1788.4	1809.0	1825.4
30°	1681.7	1689.9	1730.9	1757.6	1776.1
32.5°	1615.9	1626.2	1671.4	1702.2	1722.7
35°	1546.1	1558.5	1609.8	1644.7	1667.3
37.5°	1474.3	1488.6	1544.1	1583.1	1609.8
40°	1402.4	1418.8	1476.3	1521.5	1552.3
42.5°	1326.4	1344.9	1408.6	1462.0	1494.8
45°	1250.5	1271.0	1336.7	1400.4	1437.3
47.5°	1174.5	1199.1	1268.9	1338.8	1377.8
50°	1096.5	1121.1	1195.0	1275.1	1314.1
52.5°	1018.4	1047.2	1129.3	1211.4	1250.5
55°	942.5	971.2	1059.5	1145.7	1184.8
57.5°	864.4	893.2	989.7	1080.0	1119.0
60°	784.4	817.2	917.8	1010.2	1053.3
62.5°	706.3	741.2	848.0	946.6	987.6
65°	628.3	665.3	776.1	878.8	919.9
67.5°	548.2	591.4	706.3	811.1	854.2
70°	470.2	517.4	638.6	743.3	784.4
72.5°	394.2	445.6	570.8	677.6	702.2
75°	318.3	377.8	505.1	564.7	564.7
77.5°	246.4	312.1	431.2	453.8	466.1
80°	178.6	250.5	324.4	351.1	347.0
82.5°	119.1	191.0	232.0	232.0	225.9
85°	67.8	115.0	125.3	121.1	119.1
87.5°	28.7	43.1	39.0	30.8	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)