

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: P260901

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260901
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-L92765-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: 5326.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

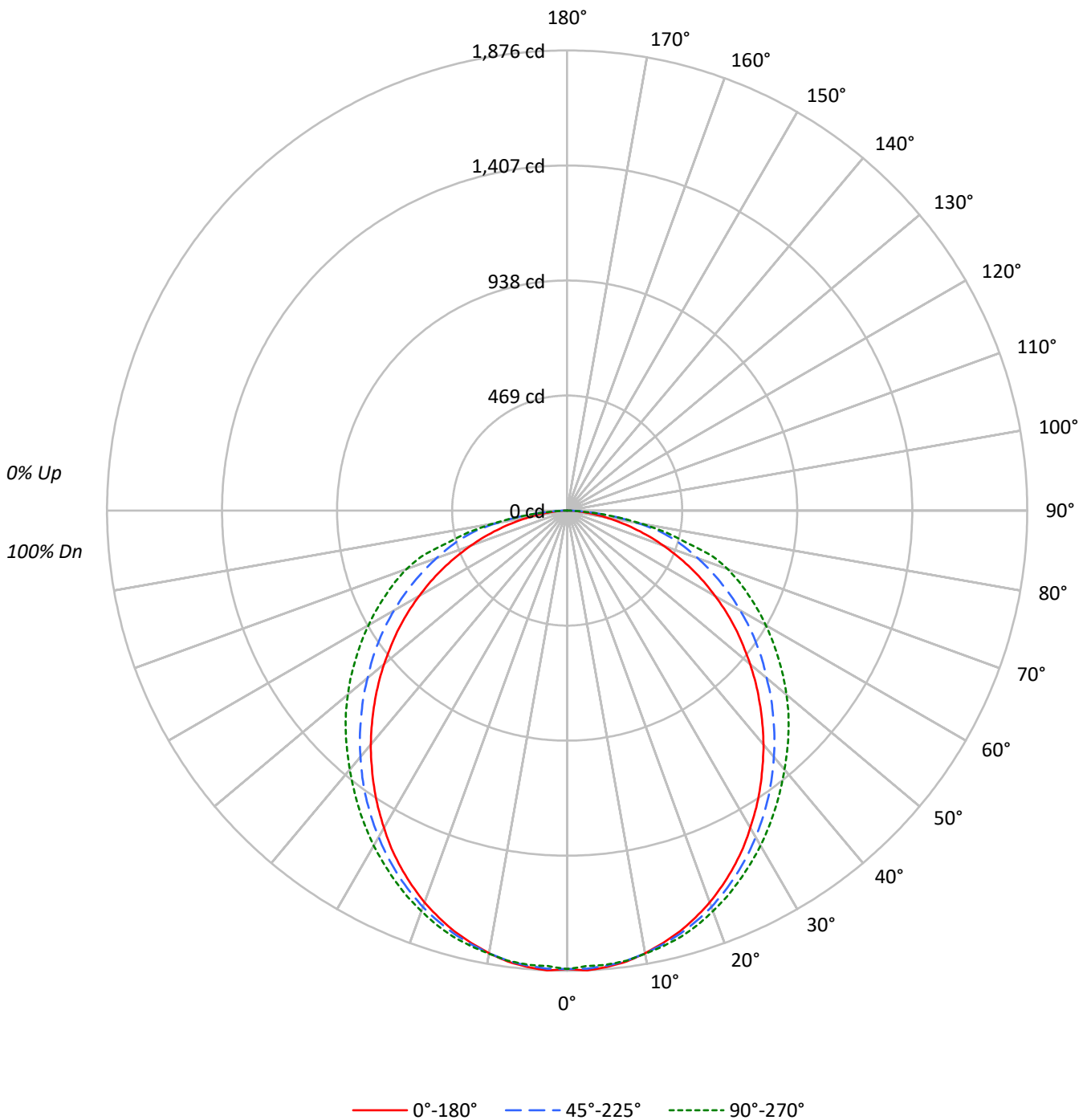
Input Watts (W): 48.453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2515	2515	2515
5°	2522	2515	2510
10°	2504	2504	2506
15°	2474	2487	2505
20°	2434	2462	2488
25°	2382	2428	2469
30°	2320	2388	2451
35°	2255	2348	2432
40°	2188	2303	2421
45°	2113	2259	2429
50°	2038	2222	2443
55°	1963	2207	2468
60°	1875	2193	2517
65°	1777	2195	2601
70°	1643	2231	2740
75°	1470	2332	2607
80°	1229	2232	2388
85°	929	1717	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.3
10°-20°	502.7	9.4
20°-30°	751.5	14.1
30°-40°	891.5	16.7
40°-50°	917.6	17.2
50°-60°	841.8	15.8
60°-70°	680.6	12.8
70°-80°	441.7	8.3
80°-90°	121.8	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°	1430.9	26.9
0°-40°	2322.4	43.6
0°-60°	4081.8	76.6
0°-90°	5326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1867	1855	1862	1860	1858	177
15°	1776	1769	1785	1793	1798	500
25°	1605	1607	1636	1650	1663	739
35°	1373	1384	1430	1461	1481	859
45°	1110	1129	1187	1244	1276	857
55°	837	862	941	1018	1052	748
65°	558	591	689	780	817	551
75°	283	336	449	502	502	300
85°	60	102	111	108	106	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.1	1869.1	1869.1	1869.1	1869.1
2.5°	1876.4	1861.9	1869.1	1867.3	1858.2
5°	1867.3	1854.6	1861.9	1860.0	1858.2
7.5°	1854.6	1841.8	1850.9	1849.1	1850.9
10°	1832.7	1821.7	1832.7	1834.5	1834.5
12.5°	1805.3	1796.2	1810.8	1814.4	1818.1
15°	1776.1	1768.9	1785.3	1792.6	1798.0
17.5°	1739.7	1734.2	1754.3	1763.4	1770.7
20°	1699.6	1697.7	1719.6	1728.7	1737.9
22.5°	1654.0	1654.0	1679.5	1690.4	1703.2
25°	1604.7	1606.6	1635.7	1650.3	1663.1
27.5°	1551.8	1553.7	1588.3	1606.6	1621.1
30°	1493.5	1500.8	1537.3	1561.0	1577.4
32.5°	1435.1	1444.3	1484.4	1511.7	1530.0
35°	1373.1	1384.1	1429.7	1460.7	1480.7
37.5°	1309.3	1322.1	1371.3	1406.0	1429.7
40°	1245.5	1260.1	1311.1	1351.3	1378.6
42.5°	1178.0	1194.4	1251.0	1298.4	1327.6
45°	1110.5	1128.8	1187.1	1243.7	1276.5
47.5°	1043.1	1065.0	1127.0	1189.0	1223.6
50°	973.8	995.7	1061.3	1132.4	1167.1
52.5°	904.5	930.0	1003.0	1075.9	1110.5
55°	837.0	862.5	941.0	1017.5	1052.2
57.5°	767.7	793.2	879.0	959.2	993.8
60°	696.6	725.8	815.1	897.2	935.5
62.5°	627.3	658.3	753.1	840.7	877.1
65°	558.0	590.8	689.3	780.5	817.0
67.5°	486.9	525.2	627.3	720.3	758.6
70°	417.6	459.5	567.1	660.1	696.6
72.5°	350.1	395.7	506.9	601.8	623.7
75°	282.7	335.5	448.6	501.5	501.5
77.5°	218.8	277.2	382.9	403.0	413.9
80°	158.6	222.5	288.1	311.8	308.2
82.5°	105.8	169.6	206.1	206.1	200.6
85°	60.2	102.1	111.2	107.6	105.8
87.5°	25.5	38.3	34.6	27.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)