

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: P275928

Luminaire Tested: **24CZ2-65HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6183.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

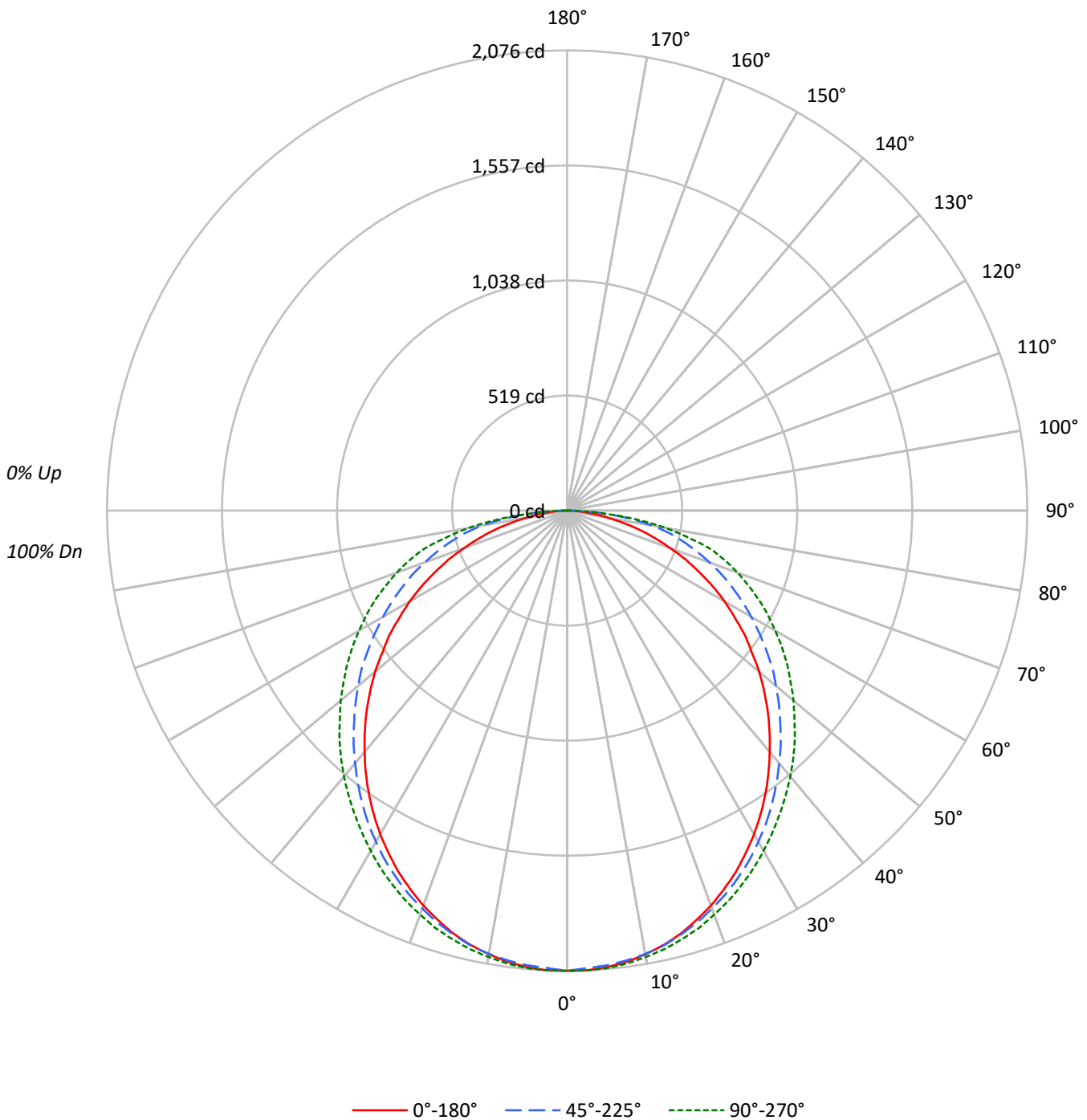
Input Watts (W): 48.918
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2793	2793	2793
5°	2793	2781	2798
10°	2777	2774	2794
15°	2754	2759	2788
20°	2715	2736	2777
25°	2671	2711	2766
30°	2619	2680	2754
35°	2562	2647	2746
40°	2497	2613	2751
45°	2434	2588	2764
50°	2367	2574	2790
55°	2294	2570	2841
60°	2204	2582	2915
65°	2089	2621	3042
70°	1940	2687	3215
75°	1770	2821	3487
80°	1455	3038	3486
85°	1115	2803	2995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	3.2
10°-20°	560.5	9.1
20°-30°	843.5	13.6
30°-40°	1010.8	16.3
40°-50°	1053.4	17.0
50°-60°	980.0	15.9
60°-70°	807.2	13.1
70°-80°	549.7	8.9
80°-90°	181.5	2.9
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°	1600.3	25.9
0°-40°	2611.2	42.2
0°-60°	4644.6	75.1
0°-90°	6183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2068	2068	2059	2070	2072	196
15°	1977	1979	1981	2000	2002	557
25°	1799	1808	1826	1857	1863	828
35°	1560	1579	1612	1655	1672	975
45°	1279	1306	1360	1428	1453	987
55°	978	1011	1096	1182	1211	872
65°	656	712	823	920	955	651
75°	340	417	543	640	671	359
85°	72	140	182	194	194	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.9	2075.9	2075.9	2075.9	2075.9
2.5°	2075.9	2075.9	2065.6	2075.9	2075.9
5°	2067.7	2067.7	2059.4	2069.7	2071.8
7.5°	2053.2	2055.3	2047.0	2059.4	2061.5
10°	2032.6	2034.6	2030.5	2042.9	2045.0
12.5°	2007.8	2009.9	2009.9	2024.3	2026.4
15°	1976.9	1978.9	1981.0	1999.6	2001.6
17.5°	1937.7	1943.9	1948.0	1970.7	1974.8
20°	1896.4	1902.6	1910.8	1935.6	1939.7
22.5°	1848.9	1857.2	1871.6	1898.5	1904.6
25°	1799.4	1807.7	1826.2	1857.2	1863.4
27.5°	1743.7	1756.1	1778.8	1811.8	1820.0
30°	1685.9	1698.3	1725.1	1760.2	1772.6
32.5°	1624.0	1640.5	1671.5	1710.7	1723.1
35°	1560.0	1578.6	1611.6	1655.0	1671.5
37.5°	1491.9	1512.6	1551.8	1599.2	1619.9
40°	1421.8	1446.5	1487.8	1543.5	1566.2
42.5°	1351.6	1374.3	1425.9	1485.7	1510.5
45°	1279.4	1306.2	1359.9	1428.0	1452.7
47.5°	1205.1	1231.9	1295.9	1368.1	1390.8
50°	1130.8	1157.6	1229.9	1306.2	1333.0
52.5°	1050.3	1085.4	1168.0	1244.3	1271.1
55°	978.1	1011.1	1095.7	1182.4	1211.3
57.5°	895.6	934.8	1027.6	1118.4	1149.4
60°	819.2	860.5	959.5	1052.4	1083.4
62.5°	740.8	786.2	891.4	986.4	1021.5
65°	656.2	711.9	823.4	920.3	955.4
67.5°	579.9	637.6	755.3	854.3	885.3
70°	493.2	563.3	683.0	782.1	817.2
72.5°	418.9	489.1	614.9	711.9	747.0
75°	340.5	416.8	542.7	639.7	670.7
77.5°	262.1	346.7	472.6	546.8	557.2
80°	187.8	276.5	392.1	435.4	449.9
82.5°	132.1	212.5	288.9	317.8	326.0
85°	72.2	140.3	181.6	194.0	194.0
87.5°	31.0	59.8	72.2	74.3	76.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)