

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: P276109

Luminaire Tested: **24CZ2-65HE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276109
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6281.5 lumens
Efficiency: N/A
Efficacy: 126.0 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

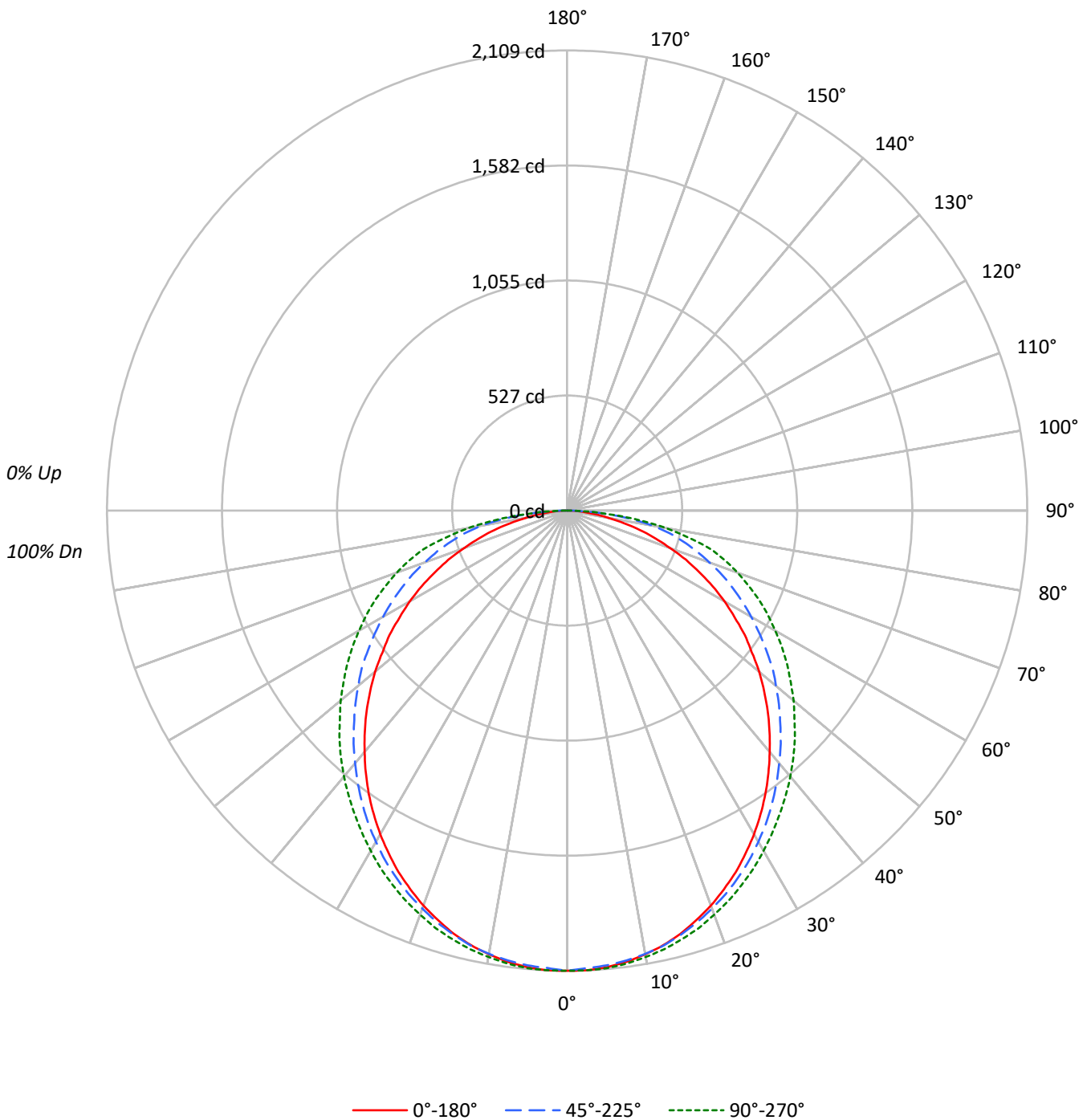
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2838	2838	2838
5°	2837	2826	2843
10°	2821	2818	2838
15°	2797	2803	2833
20°	2759	2780	2822
25°	2714	2754	2810
30°	2661	2723	2798
35°	2603	2689	2789
40°	2537	2655	2795
45°	2473	2629	2808
50°	2405	2615	2835
55°	2331	2611	2887
60°	2240	2623	2962
65°	2123	2663	3090
70°	1971	2730	3266
75°	1798	2866	3542
80°	1478	3086	3541
85°	1133	2848	3043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.2
10°-20°	569.4	9.1
20°-30°	856.9	13.6
30°-40°	1026.9	16.3
40°-50°	1070.1	17.0
50°-60°	995.7	15.9
60°-70°	820.0	13.1
70°-80°	558.5	8.9
80°-90°	184.4	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°	1625.8	25.9
0°-40°	2652.7	42.2
0°-60°	4718.5	75.1
0°-90°	6281.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6281.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2101	2101	2092	2103	2105	199
15°	2008	2010	2012	2031	2034	566
25°	1828	1836	1855	1887	1893	842
35°	1585	1604	1637	1681	1698	991
45°	1300	1327	1382	1451	1476	1002
55°	994	1027	1113	1201	1231	886
65°	667	723	836	935	971	662
75°	346	424	551	650	681	365
85°	73	143	184	197	197	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2109.0	2109.0	2098.5	2109.0	2109.0
5°	2100.6	2100.6	2092.2	2102.7	2104.8
7.5°	2085.9	2088.0	2079.6	2092.2	2094.3
10°	2064.9	2067.0	2062.9	2075.4	2077.5
12.5°	2039.8	2041.9	2041.9	2056.6	2058.7
15°	2008.3	2010.4	2012.5	2031.4	2033.5
17.5°	1968.5	1974.8	1979.0	2002.1	2006.2
20°	1926.6	1932.9	1941.3	1966.4	1970.6
22.5°	1878.4	1886.8	1901.4	1928.7	1935.0
25°	1828.1	1836.4	1855.3	1886.8	1893.0
27.5°	1771.5	1784.0	1807.1	1840.6	1849.0
30°	1712.8	1725.3	1752.6	1788.2	1800.8
32.5°	1649.9	1666.6	1698.1	1737.9	1750.5
35°	1584.9	1603.7	1637.3	1681.3	1698.1
37.5°	1515.7	1536.7	1576.5	1624.7	1645.7
40°	1444.4	1469.6	1511.5	1568.1	1591.2
42.5°	1373.1	1396.2	1448.6	1509.4	1534.6
45°	1299.8	1327.0	1381.5	1450.7	1475.9
47.5°	1224.3	1251.5	1316.5	1389.9	1413.0
50°	1148.8	1176.1	1249.5	1327.0	1354.3
52.5°	1067.1	1102.7	1186.6	1264.1	1291.4
55°	993.7	1027.2	1113.2	1201.2	1230.6
57.5°	909.8	949.7	1044.0	1136.2	1167.7
60°	832.3	874.2	974.8	1069.2	1100.6
62.5°	752.6	798.7	905.6	1002.1	1037.7
65°	666.7	723.3	836.5	935.0	970.6
67.5°	589.1	647.8	767.3	867.9	899.4
70°	501.0	572.3	693.9	794.5	830.2
72.5°	425.6	496.8	624.7	723.3	758.9
75°	345.9	423.5	551.4	649.9	681.3
77.5°	266.2	352.2	480.1	555.5	566.0
80°	190.8	280.9	398.3	442.3	457.0
82.5°	134.2	215.9	293.5	322.8	331.2
85°	73.4	142.6	184.5	197.1	197.1
87.5°	31.4	60.8	73.4	75.5	77.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)