

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: P276107

Luminaire Tested: **24CZ2-65HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276107
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-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: 6039.3 lumens
Efficiency: N/A
Efficacy: 123.0 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

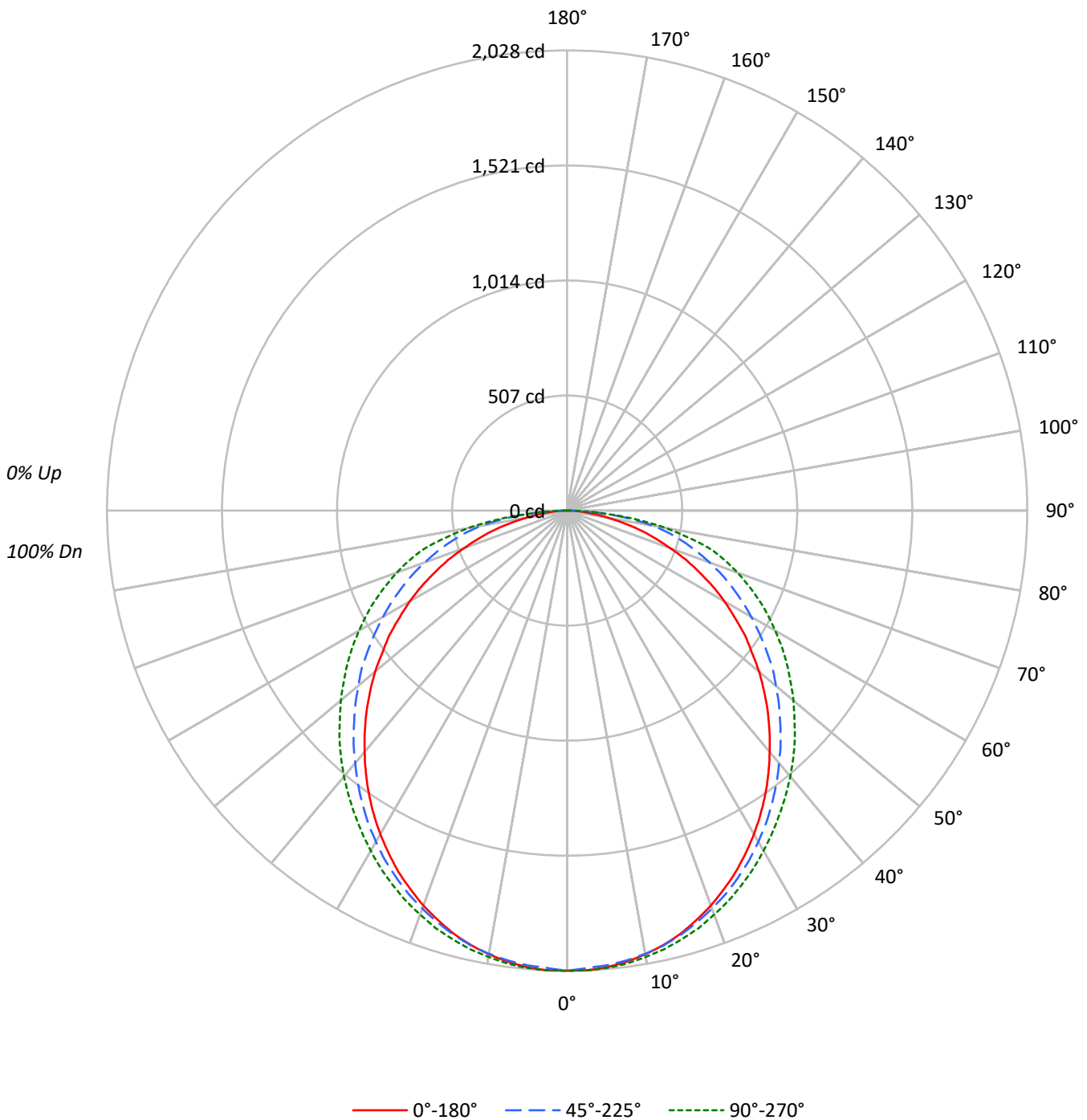
Input Watts (W): 49.104
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2728	2728	2728
5°	2728	2717	2733
10°	2712	2710	2729
15°	2690	2695	2723
20°	2652	2672	2713
25°	2609	2648	2702
30°	2558	2618	2690
35°	2503	2586	2682
40°	2439	2552	2687
45°	2378	2528	2700
50°	2312	2515	2726
55°	2241	2511	2775
60°	2153	2522	2848
65°	2041	2560	2971
70°	1895	2625	3140
75°	1729	2756	3406
80°	1421	2968	3405
85°	1088	2739	2925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	3.2
10°-20°	547.5	9.1
20°-30°	823.9	13.6
30°-40°	987.3	16.3
40°-50°	1028.9	17.0
50°-60°	957.3	15.9
60°-70°	788.4	13.1
70°-80°	537.0	8.9
80°-90°	177.3	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°	1563.1	25.9
0°-40°	2550.4	42.2
0°-60°	4536.6	75.1
0°-90°	6039.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6039.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2020	2020	2012	2022	2024	192
15°	1931	1933	1935	1953	1955	544
25°	1758	1766	1784	1814	1820	809
35°	1524	1542	1574	1616	1633	953
45°	1250	1276	1328	1395	1419	964
55°	955	988	1070	1155	1183	852
65°	641	695	804	899	933	636
75°	333	407	530	625	655	351
85°	70	137	177	190	190	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.7	2027.7	2027.7	2027.7	2027.7
2.5°	2027.7	2027.7	2017.6	2027.7	2027.7
5°	2019.6	2019.6	2011.5	2021.6	2023.6
7.5°	2005.5	2007.5	1999.4	2011.5	2013.6
10°	1985.3	1987.4	1983.3	1995.4	1997.4
12.5°	1961.1	1963.2	1963.2	1977.3	1979.3
15°	1930.9	1932.9	1934.9	1953.1	1955.1
17.5°	1892.6	1898.7	1902.7	1924.9	1928.9
20°	1852.3	1858.4	1866.4	1890.6	1894.6
22.5°	1805.9	1814.0	1828.1	1854.3	1860.4
25°	1757.6	1765.6	1783.8	1814.0	1820.1
27.5°	1703.2	1715.2	1737.4	1769.7	1777.7
30°	1646.7	1658.8	1685.0	1719.3	1731.4
32.5°	1586.3	1602.4	1632.6	1670.9	1683.0
35°	1523.8	1541.9	1574.2	1616.5	1632.6
37.5°	1457.3	1477.4	1515.7	1562.1	1582.2
40°	1388.7	1412.9	1453.2	1507.6	1529.8
42.5°	1320.2	1342.4	1392.8	1451.2	1475.4
45°	1249.7	1275.9	1328.3	1394.8	1419.0
47.5°	1177.1	1203.3	1265.8	1336.3	1358.5
50°	1104.5	1130.7	1201.3	1275.9	1302.1
52.5°	1025.9	1060.2	1140.8	1215.4	1241.6
55°	955.4	987.6	1070.3	1154.9	1183.1
57.5°	874.8	913.1	1003.8	1092.4	1122.7
60°	800.2	840.5	937.2	1027.9	1058.2
62.5°	723.6	767.9	870.7	963.4	997.7
65°	641.0	695.4	804.2	898.9	933.2
67.5°	566.4	622.8	737.7	834.4	864.7
70°	481.7	550.3	667.2	763.9	798.2
72.5°	409.2	477.7	600.6	695.4	729.6
75°	332.6	407.1	530.1	624.8	655.1
77.5°	256.0	338.6	461.6	534.1	544.2
80°	183.4	270.1	383.0	425.3	439.4
82.5°	129.0	207.6	282.2	310.4	318.5
85°	70.5	137.1	177.4	189.5	189.5
87.5°	30.2	58.5	70.5	72.6	74.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)