

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: P260904

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260904
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5922.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

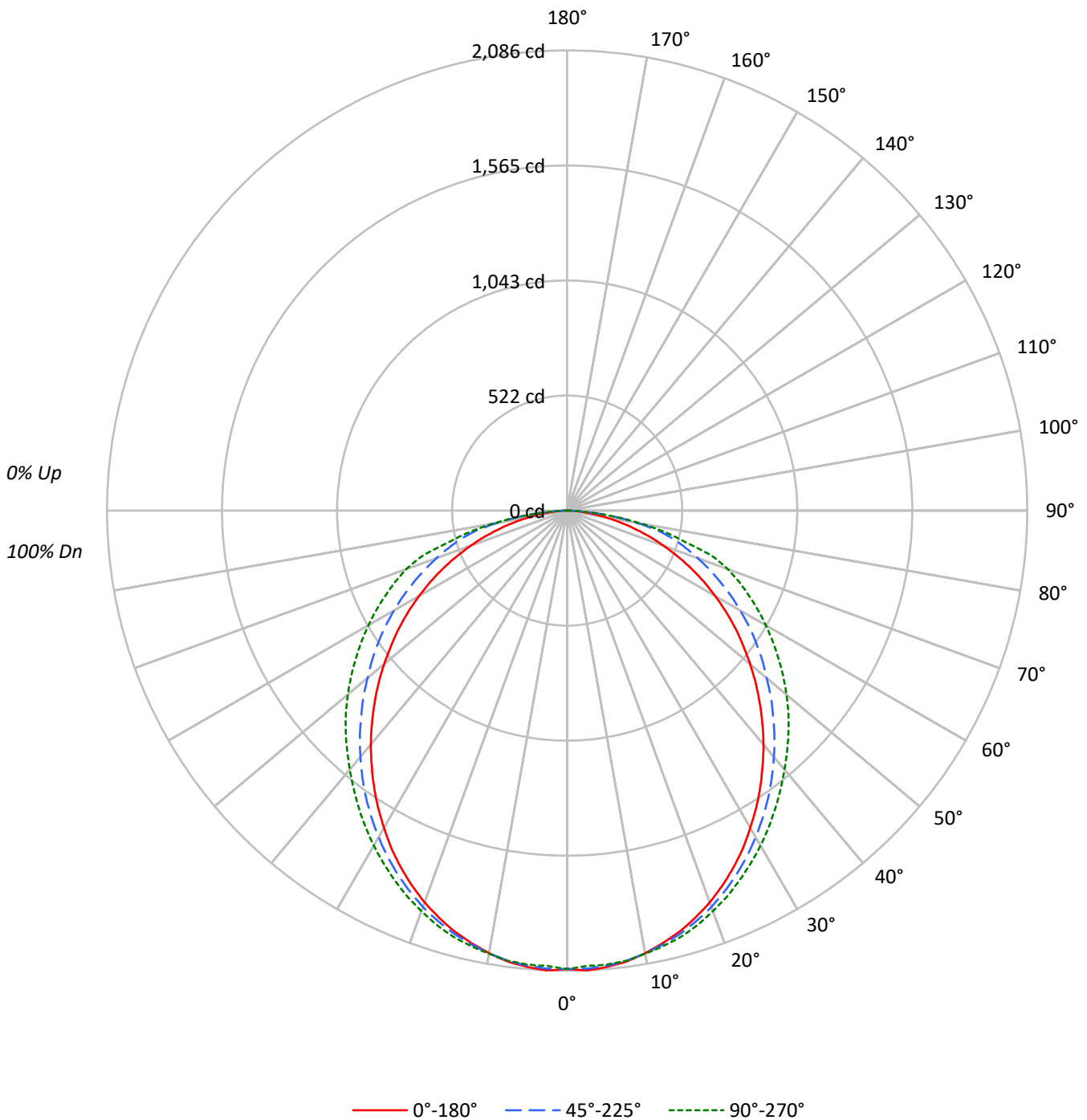
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2796	2796	2796
5°	2804	2796	2791
10°	2784	2784	2787
15°	2751	2765	2785
20°	2706	2738	2767
25°	2649	2700	2745
30°	2580	2656	2725
35°	2508	2611	2704
40°	2432	2561	2692
45°	2350	2512	2701
50°	2267	2470	2716
55°	2183	2454	2744
60°	2084	2439	2799
65°	1975	2440	2892
70°	1827	2481	3047
75°	1634	2593	2899
80°	1367	2483	2655
85°	1033	1910	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.3
10°-20°	559.0	9.4
20°-30°	835.6	14.1
30°-40°	991.3	16.7
40°-50°	1020.3	17.2
50°-60°	936.0	15.8
60°-70°	756.8	12.8
70°-80°	491.2	8.3
80°-90°	135.4	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°	1591.0	26.9
0°-40°	2582.3	43.6
0°-60°	4538.6	76.6
0°-90°	5922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2076	2062	2070	2068	2066	197
15°	1975	1967	1985	1993	1999	556
25°	1784	1786	1819	1835	1849	821
35°	1527	1539	1590	1624	1646	955
45°	1235	1255	1320	1383	1419	953
55°	931	959	1046	1131	1170	831
65°	620	657	766	868	908	613
75°	314	373	499	558	558	334
85°	67	114	124	120	118	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2086.4	2070.2	2078.3	2076.3	2066.1
5°	2076.3	2062.1	2070.2	2068.2	2066.1
7.5°	2062.1	2047.9	2058.0	2056.0	2058.0
10°	2037.8	2025.6	2037.8	2039.8	2039.8
12.5°	2007.3	1997.2	2013.4	2017.5	2021.5
15°	1974.9	1966.8	1985.0	1993.2	1999.2
17.5°	1934.4	1928.3	1950.6	1960.7	1968.8
20°	1889.7	1887.7	1912.0	1922.2	1932.3
22.5°	1839.1	1839.1	1867.4	1879.6	1893.8
25°	1784.3	1786.3	1818.8	1835.0	1849.2
27.5°	1725.5	1727.5	1766.1	1786.3	1802.6
30°	1660.6	1668.7	1709.3	1735.6	1753.9
32.5°	1595.7	1605.9	1650.5	1680.9	1701.2
35°	1526.8	1539.0	1589.7	1624.1	1646.4
37.5°	1455.8	1470.0	1524.8	1563.3	1589.7
40°	1384.9	1401.1	1457.9	1502.5	1532.9
42.5°	1309.8	1328.1	1390.9	1443.7	1476.1
45°	1234.8	1255.1	1320.0	1382.8	1419.3
47.5°	1159.8	1184.1	1253.1	1322.0	1360.5
50°	1082.8	1107.1	1180.1	1259.2	1297.7
52.5°	1005.7	1034.1	1115.2	1196.3	1234.8
55°	930.7	959.1	1046.3	1131.4	1169.9
57.5°	853.6	882.0	977.3	1066.5	1105.1
60°	774.6	807.0	906.3	997.6	1040.2
62.5°	697.5	732.0	837.4	934.7	975.3
65°	620.5	657.0	766.4	867.8	908.4
67.5°	541.4	584.0	697.5	800.9	843.5
70°	464.3	511.0	630.6	734.0	774.6
72.5°	389.3	440.0	563.7	669.1	693.4
75°	314.3	373.1	498.8	557.6	557.6
77.5°	243.3	308.2	425.8	448.1	460.3
80°	176.4	247.4	320.4	346.7	342.7
82.5°	117.6	188.6	229.1	229.1	223.0
85°	66.9	113.5	123.7	119.6	117.6
87.5°	28.4	42.6	38.5	30.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)