

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: P260897

Luminaire Tested: **24CZ-LD5-60-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260897
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-LD5-60-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

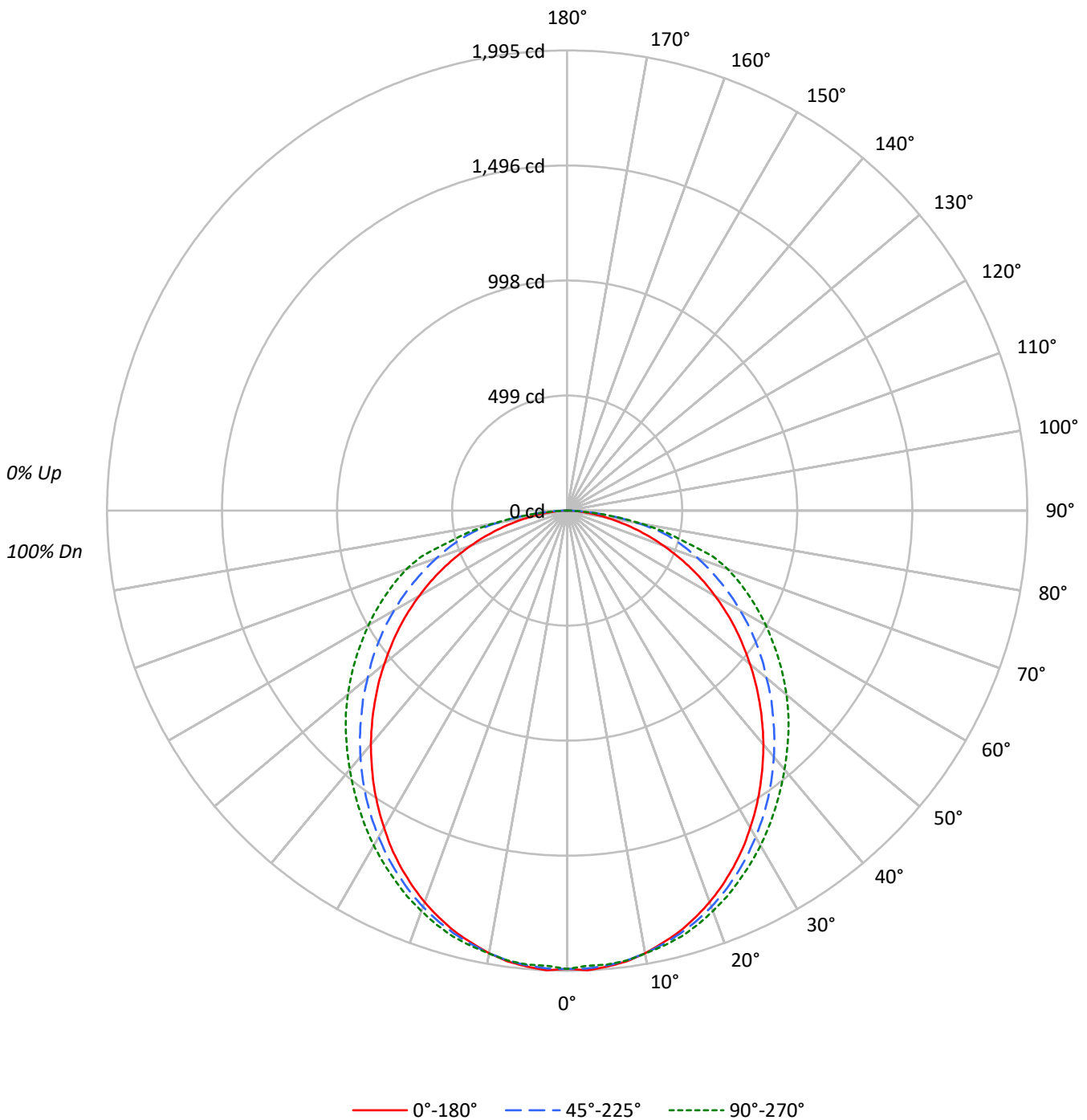
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2674	2674	2674
5°	2681	2673	2668
10°	2662	2662	2664
15°	2630	2644	2663
20°	2587	2618	2645
25°	2533	2582	2625
30°	2467	2539	2605
35°	2398	2496	2586
40°	2326	2448	2574
45°	2246	2401	2582
50°	2167	2362	2597
55°	2087	2346	2624
60°	1993	2332	2676
65°	1889	2333	2765
70°	1746	2372	2913
75°	1562	2479	2771
80°	1307	2373	2538
85°	988	1826	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	3.3
10°-20°	534.4	9.4
20°-30°	798.9	14.1
30°-40°	947.8	16.7
40°-50°	975.5	17.2
50°-60°	894.9	15.8
60°-70°	723.6	12.8
70°-80°	469.6	8.3
80°-90°	129.5	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°	1521.1	26.9
0°-40°	2468.9	43.6
0°-60°	4339.3	76.6
0°-90°	5662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1985	1972	1979	1977	1975	188
15°	1888	1880	1898	1906	1912	532
25°	1706	1708	1739	1754	1768	785
35°	1460	1471	1520	1553	1574	913
45°	1181	1200	1262	1322	1357	911
55°	890	917	1000	1082	1119	795
65°	593	628	733	830	868	586
75°	300	357	477	533	533	319
85°	64	109	118	114	112	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.1	1987.1	1987.1	1987.1	1987.1
2.5°	1994.8	1979.3	1987.1	1985.1	1975.4
5°	1985.1	1971.6	1979.3	1977.4	1975.4
7.5°	1971.6	1958.0	1967.7	1965.7	1967.7
10°	1948.3	1936.7	1948.3	1950.2	1950.2
12.5°	1919.2	1909.5	1925.0	1928.9	1932.8
15°	1888.2	1880.4	1897.9	1905.6	1911.5
17.5°	1849.4	1843.6	1864.9	1874.6	1882.4
20°	1806.8	1804.8	1828.1	1837.8	1847.5
22.5°	1758.3	1758.3	1785.5	1797.1	1810.7
25°	1706.0	1707.9	1738.9	1754.4	1768.0
27.5°	1649.8	1651.7	1688.5	1707.9	1723.4
30°	1587.7	1595.5	1634.2	1659.4	1676.9
32.5°	1525.7	1535.4	1578.0	1607.1	1626.5
35°	1459.8	1471.4	1519.9	1552.8	1574.1
37.5°	1391.9	1405.5	1457.8	1494.7	1519.9
40°	1324.1	1339.6	1393.9	1436.5	1465.6
42.5°	1252.3	1269.8	1329.9	1380.3	1411.3
45°	1180.6	1200.0	1262.0	1322.1	1357.0
47.5°	1108.9	1132.1	1198.1	1264.0	1300.8
50°	1035.2	1058.5	1128.3	1203.9	1240.7
52.5°	961.5	988.7	1066.2	1143.8	1180.6
55°	889.8	917.0	1000.3	1081.7	1118.6
57.5°	816.2	843.3	934.4	1019.7	1056.5
60°	740.5	771.6	866.6	953.8	994.5
62.5°	666.9	699.8	800.6	893.7	932.5
65°	593.2	628.1	732.8	829.7	868.5
67.5°	517.6	558.3	666.9	765.7	806.5
70°	443.9	488.5	602.9	701.8	740.5
72.5°	372.2	420.7	538.9	639.7	663.0
75°	300.5	356.7	476.9	533.1	533.1
77.5°	232.6	294.7	407.1	428.4	440.1
80°	168.7	236.5	306.3	331.5	327.6
82.5°	112.4	180.3	219.1	219.1	213.2
85°	64.0	108.6	118.3	114.4	112.4
87.5°	27.1	40.7	36.8	29.1	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)