

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: P260663

Luminaire Tested: **24CZ-LD5-65-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260663
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5555.6 lumens
Efficiency: N/A
Efficacy: 111.5 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

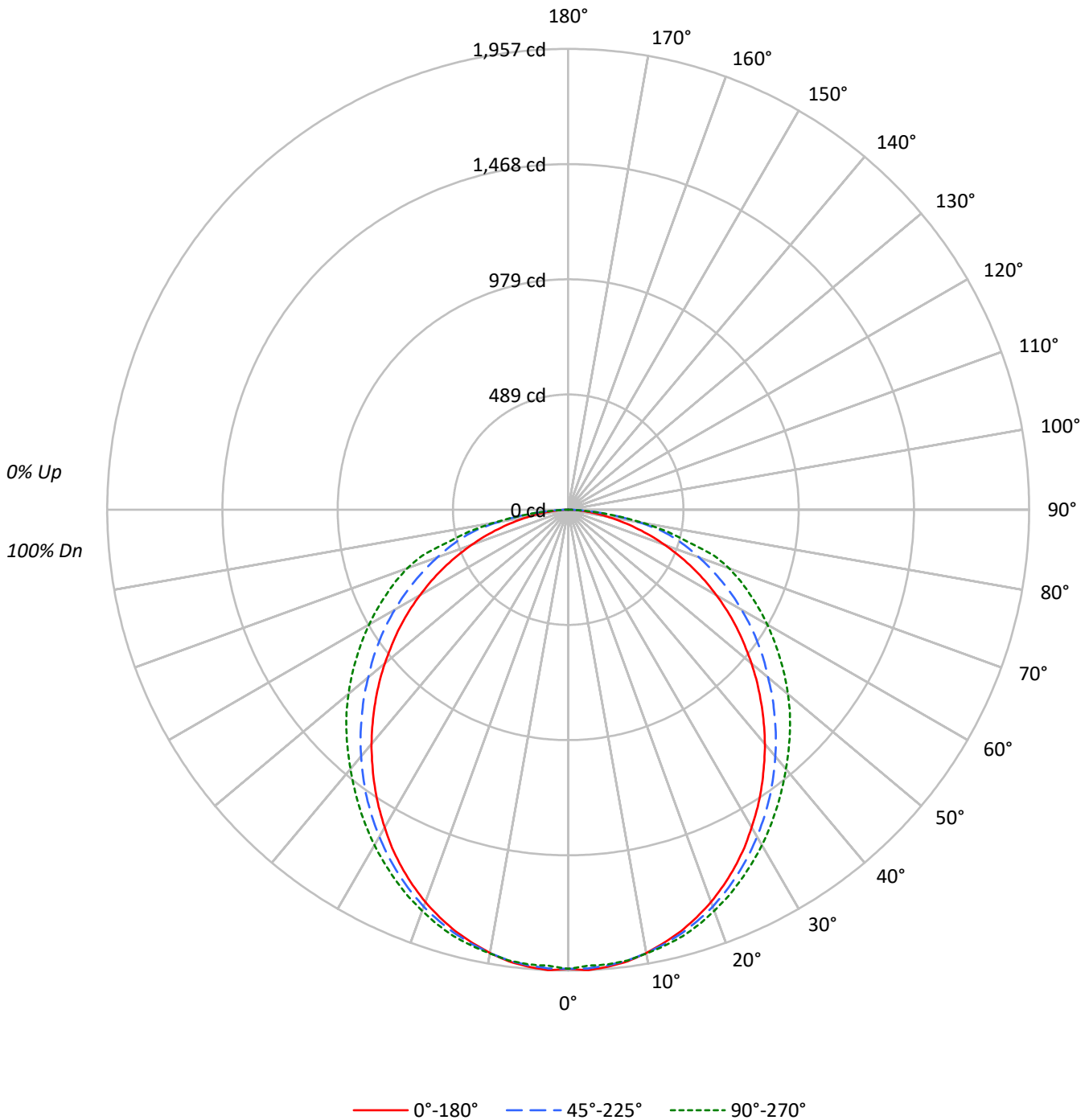
Input Watts (W): 49.847442
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2623	2623	2623
5°	2631	2623	2618
10°	2612	2612	2614
15°	2581	2594	2612
20°	2538	2568	2596
25°	2485	2533	2575
30°	2420	2491	2556
35°	2353	2450	2537
40°	2282	2402	2526
45°	2204	2356	2534
50°	2126	2317	2548
55°	2048	2302	2575
60°	1955	2288	2626
65°	1853	2289	2713
70°	1714	2327	2858
75°	1533	2432	2719
80°	1282	2328	2491
85°	969	1791	1703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.3
10°-20°	524.4	9.4
20°-30°	783.9	14.1
30°-40°	930.0	16.7
40°-50°	957.2	17.2
50°-60°	878.1	15.8
60°-70°	710.0	12.8
70°-80°	460.8	8.3
80°-90°	127.0	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°	1492.5	26.9
0°-40°	2422.5	43.6
0°-60°	4257.8	76.6
0°-90°	5555.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5555.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1948	1934	1942	1940	1938	185
15°	1853	1845	1862	1870	1876	522
25°	1674	1676	1706	1722	1735	770
35°	1432	1444	1491	1524	1545	896
45°	1158	1177	1238	1297	1332	894
55°	873	900	982	1061	1098	780
65°	582	616	719	814	852	575
75°	295	350	468	523	523	313
85°	63	106	116	112	110	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.7	1949.7	1949.7	1949.7	1949.7
2.5°	1957.3	1942.1	1949.7	1947.8	1938.3
5°	1947.8	1934.5	1942.1	1940.2	1938.3
7.5°	1934.5	1921.2	1930.7	1928.8	1930.7
10°	1911.7	1900.3	1911.7	1913.6	1913.6
12.5°	1883.2	1873.6	1888.9	1892.7	1896.5
15°	1852.7	1845.1	1862.2	1869.8	1875.5
17.5°	1814.7	1809.0	1829.9	1839.4	1847.0
20°	1772.8	1770.9	1793.7	1803.3	1812.8
22.5°	1725.3	1725.3	1751.9	1763.3	1776.6
25°	1673.9	1675.8	1706.2	1721.5	1734.8
27.5°	1618.7	1620.7	1656.8	1675.8	1691.0
30°	1557.9	1565.5	1603.5	1628.3	1645.4
32.5°	1497.0	1506.5	1548.4	1576.9	1595.9
35°	1432.3	1443.7	1491.3	1523.6	1544.6
37.5°	1365.8	1379.1	1430.4	1466.6	1491.3
40°	1299.2	1314.4	1367.7	1409.5	1438.0
42.5°	1228.8	1245.9	1304.9	1354.3	1384.8
45°	1158.4	1177.4	1238.3	1297.3	1331.5
47.5°	1088.0	1110.9	1175.5	1240.2	1276.4
50°	1015.8	1038.6	1107.1	1181.2	1217.4
52.5°	943.5	970.1	1046.2	1122.3	1158.4
55°	873.1	899.7	981.5	1061.4	1097.6
57.5°	800.8	827.4	916.8	1000.5	1036.7
60°	726.6	757.1	850.3	935.9	975.8
62.5°	654.3	686.7	785.6	876.9	914.9
65°	582.1	616.3	719.0	814.1	852.2
67.5°	507.9	547.8	654.3	751.4	791.3
70°	435.6	479.3	591.6	688.6	726.6
72.5°	365.2	412.8	528.8	627.7	650.5
75°	294.8	350.0	467.9	523.1	523.1
77.5°	228.3	289.1	399.5	420.4	431.8
80°	165.5	232.1	300.5	325.3	321.5
82.5°	110.3	176.9	214.9	214.9	209.2
85°	62.8	106.5	116.0	112.2	110.3
87.5°	26.6	39.9	36.1	28.5	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)