

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: P260918

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260918
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-LD5-75-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5907.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

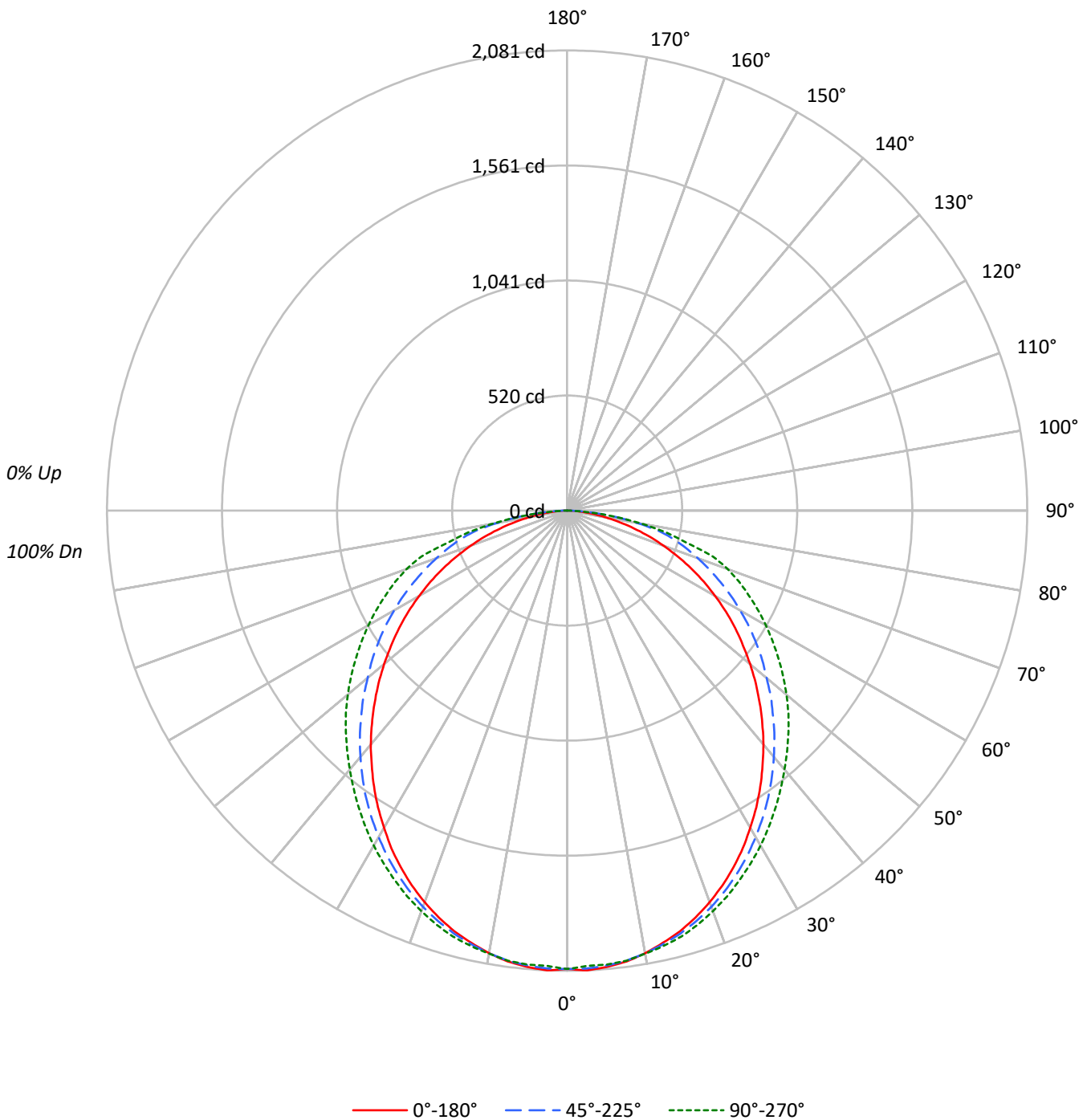
Input Watts (W): 58.311
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2789	2789	2789
5°	2797	2789	2784
10°	2777	2777	2780
15°	2744	2758	2778
20°	2699	2731	2760
25°	2642	2693	2738
30°	2573	2649	2718
35°	2501	2604	2698
40°	2426	2554	2686
45°	2344	2505	2694
50°	2261	2464	2709
55°	2178	2448	2738
60°	2079	2433	2792
65°	1970	2434	2885
70°	1822	2474	3039
75°	1630	2586	2891
80°	1364	2476	2648
85°	1030	1905	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	3.3
10°-20°	557.5	9.4
20°-30°	833.5	14.1
30°-40°	988.8	16.7
40°-50°	1017.7	17.2
50°-60°	933.6	15.8
60°-70°	754.9	12.8
70°-80°	489.9	8.3
80°-90°	135.1	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°	1586.9	26.9
0°-40°	2575.7	43.6
0°-60°	4527.1	76.6
0°-90°	5907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2071	2057	2065	2063	2061	197
15°	1970	1962	1980	1988	1994	555
25°	1780	1782	1814	1830	1844	819
35°	1523	1535	1586	1620	1642	952
45°	1232	1252	1317	1379	1416	951
55°	928	957	1044	1128	1167	829
65°	619	655	764	866	906	612
75°	314	372	498	556	556	333
85°	67	113	123	119	117	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.0	2073.0	2073.0	2073.0	2073.0
2.5°	2081.1	2065.0	2073.0	2071.0	2060.9
5°	2071.0	2056.9	2065.0	2062.9	2060.9
7.5°	2056.9	2042.7	2052.8	2050.8	2052.8
10°	2032.6	2020.5	2032.6	2034.6	2034.6
12.5°	2002.3	1992.2	2008.3	2012.4	2016.4
15°	1969.9	1961.8	1980.0	1988.1	1994.2
17.5°	1929.5	1923.4	1945.6	1955.7	1963.8
20°	1885.0	1882.9	1907.2	1917.3	1927.4
22.5°	1834.4	1834.4	1862.7	1874.8	1889.0
25°	1779.8	1781.8	1814.2	1830.4	1844.5
27.5°	1721.1	1723.2	1761.6	1781.8	1798.0
30°	1656.4	1664.5	1705.0	1731.2	1749.5
32.5°	1591.7	1601.8	1646.3	1676.6	1696.9
35°	1522.9	1535.1	1585.6	1620.0	1642.3
37.5°	1452.1	1466.3	1520.9	1559.3	1585.6
40°	1381.4	1397.5	1454.2	1498.7	1529.0
42.5°	1306.5	1324.7	1387.4	1440.0	1472.4
45°	1231.7	1251.9	1316.6	1379.3	1415.7
47.5°	1156.9	1181.1	1249.9	1318.7	1357.1
50°	1080.0	1104.3	1177.1	1256.0	1294.4
52.5°	1003.2	1031.5	1112.4	1193.3	1231.7
55°	928.3	956.6	1043.6	1128.5	1167.0
57.5°	851.5	879.8	974.8	1063.8	1102.3
60°	772.6	805.0	904.1	995.1	1037.5
62.5°	695.7	730.1	835.3	932.4	972.8
65°	618.9	655.3	764.5	865.6	906.1
67.5°	540.0	582.5	695.7	798.9	841.4
70°	463.1	509.7	629.0	732.1	772.6
72.5°	388.3	438.9	562.3	667.4	691.7
75°	313.5	372.1	497.5	556.2	556.2
77.5°	242.7	307.4	424.7	447.0	459.1
80°	176.0	246.7	319.6	345.8	341.8
82.5°	117.3	188.1	228.5	228.5	222.5
85°	66.7	113.3	123.4	119.3	117.3
87.5°	28.3	42.5	38.4	30.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)