

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: P260766

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260766
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6171.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

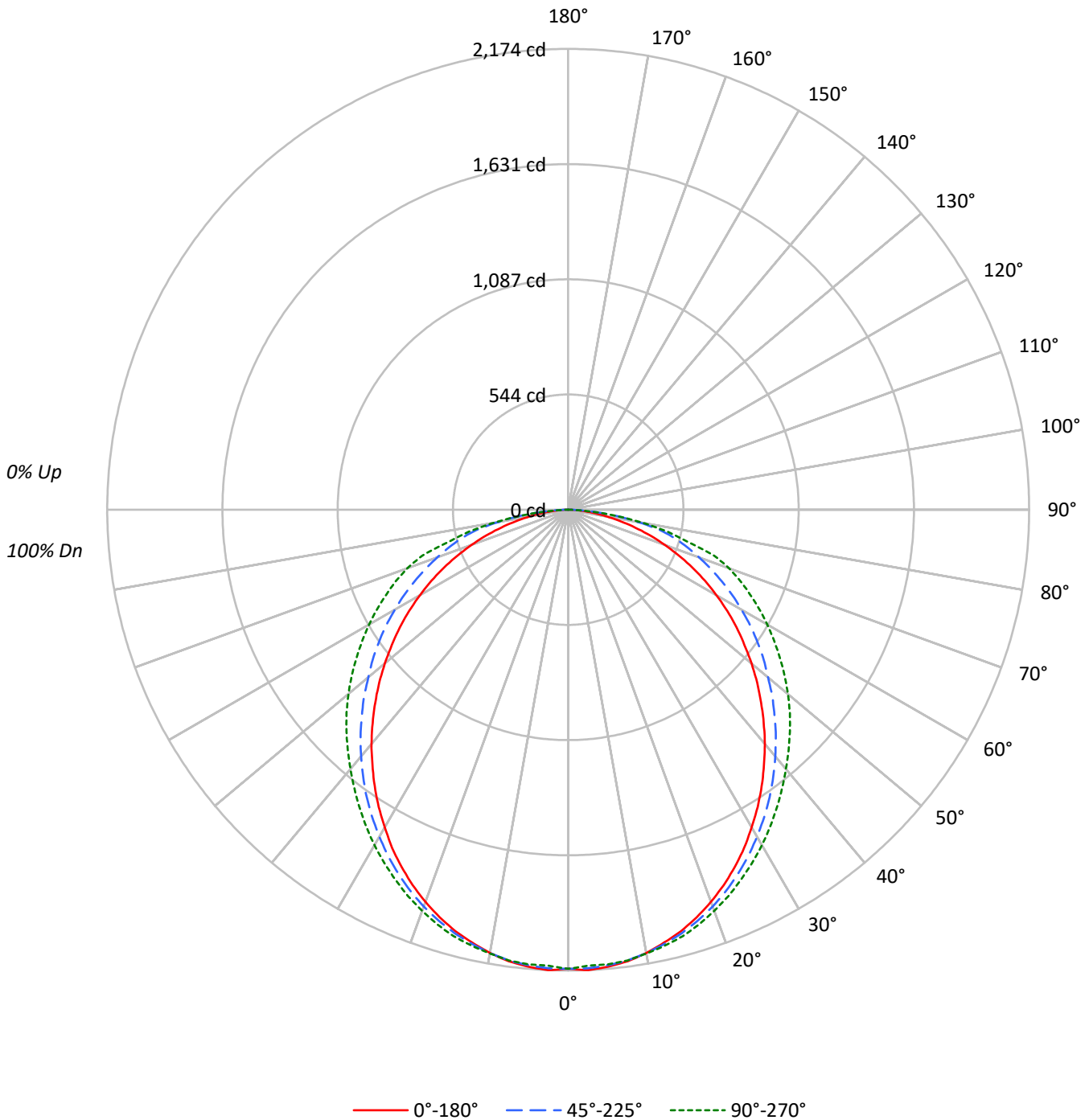
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2914	2914	2914
5°	2922	2914	2908
10°	2901	2901	2904
15°	2867	2881	2902
20°	2820	2853	2883
25°	2760	2814	2861
30°	2688	2767	2839
35°	2613	2721	2818
40°	2535	2668	2806
45°	2448	2617	2814
50°	2362	2574	2830
55°	2275	2557	2860
60°	2172	2542	2917
65°	2058	2543	3014
70°	1903	2585	3175
75°	1703	2702	3020
80°	1424	2586	2767
85°	1076	1990	1891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.3
10°-20°	582.5	9.4
20°-30°	870.8	14.1
30°-40°	1033.0	16.7
40°-50°	1063.2	17.2
50°-60°	975.4	15.8
60°-70°	788.6	12.8
70°-80°	511.8	8.3
80°-90°	141.1	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°	1657.9	26.9
0°-40°	2690.9	43.6
0°-60°	4729.4	76.6
0°-90°	6171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2164	2149	2157	2155	2153	205
15°	2058	2050	2068	2077	2083	580
25°	1859	1861	1895	1912	1927	856
35°	1591	1604	1656	1692	1716	995
45°	1287	1308	1376	1441	1479	993
55°	970	999	1090	1179	1219	866
65°	646	685	799	904	947	639
75°	328	389	520	581	581	348
85°	70	118	129	125	122	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.7	2165.7	2165.7	2165.7	2165.7
2.5°	2174.2	2157.2	2165.7	2163.6	2153.0
5°	2163.6	2148.8	2157.2	2155.1	2153.0
7.5°	2148.8	2134.0	2144.6	2142.5	2144.6
10°	2123.4	2110.8	2123.4	2125.6	2125.6
12.5°	2091.7	2081.2	2098.1	2102.3	2106.5
15°	2057.9	2049.5	2068.5	2077.0	2083.3
17.5°	2015.7	2009.3	2032.6	2043.2	2051.6
20°	1969.2	1967.1	1992.4	2003.0	2013.6
22.5°	1916.4	1916.4	1946.0	1958.6	1973.4
25°	1859.3	1861.4	1895.3	1912.2	1926.9
27.5°	1798.1	1800.2	1840.3	1861.4	1878.3
30°	1730.4	1738.9	1781.2	1808.6	1827.6
32.5°	1662.8	1673.4	1719.9	1751.6	1772.7
35°	1591.0	1603.7	1656.5	1692.4	1715.7
37.5°	1517.0	1531.8	1588.9	1629.0	1656.5
40°	1443.1	1460.0	1519.2	1565.6	1597.3
42.5°	1364.9	1383.9	1449.4	1504.4	1538.2
45°	1286.7	1307.9	1375.5	1441.0	1479.0
47.5°	1208.6	1233.9	1305.8	1377.6	1417.7
50°	1128.3	1153.6	1229.7	1312.1	1352.2
52.5°	1048.0	1077.6	1162.1	1246.6	1286.7
55°	969.8	999.4	1090.2	1179.0	1219.1
57.5°	889.5	919.1	1018.4	1111.4	1151.5
60°	807.1	840.9	944.5	1039.5	1083.9
62.5°	726.8	762.7	872.6	974.0	1016.3
65°	646.5	684.6	798.7	904.3	946.6
67.5°	564.1	608.5	726.8	834.6	879.0
70°	483.8	532.4	657.1	764.9	807.1
72.5°	405.7	458.5	587.4	697.2	722.6
75°	327.5	388.8	519.8	581.0	581.0
77.5°	253.5	321.2	443.7	466.9	479.6
80°	183.8	257.8	333.8	361.3	357.1
82.5°	122.5	196.5	238.8	238.8	232.4
85°	69.7	118.3	128.9	124.7	122.5
87.5°	29.6	44.4	40.1	31.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)