

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: P261185

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6117.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

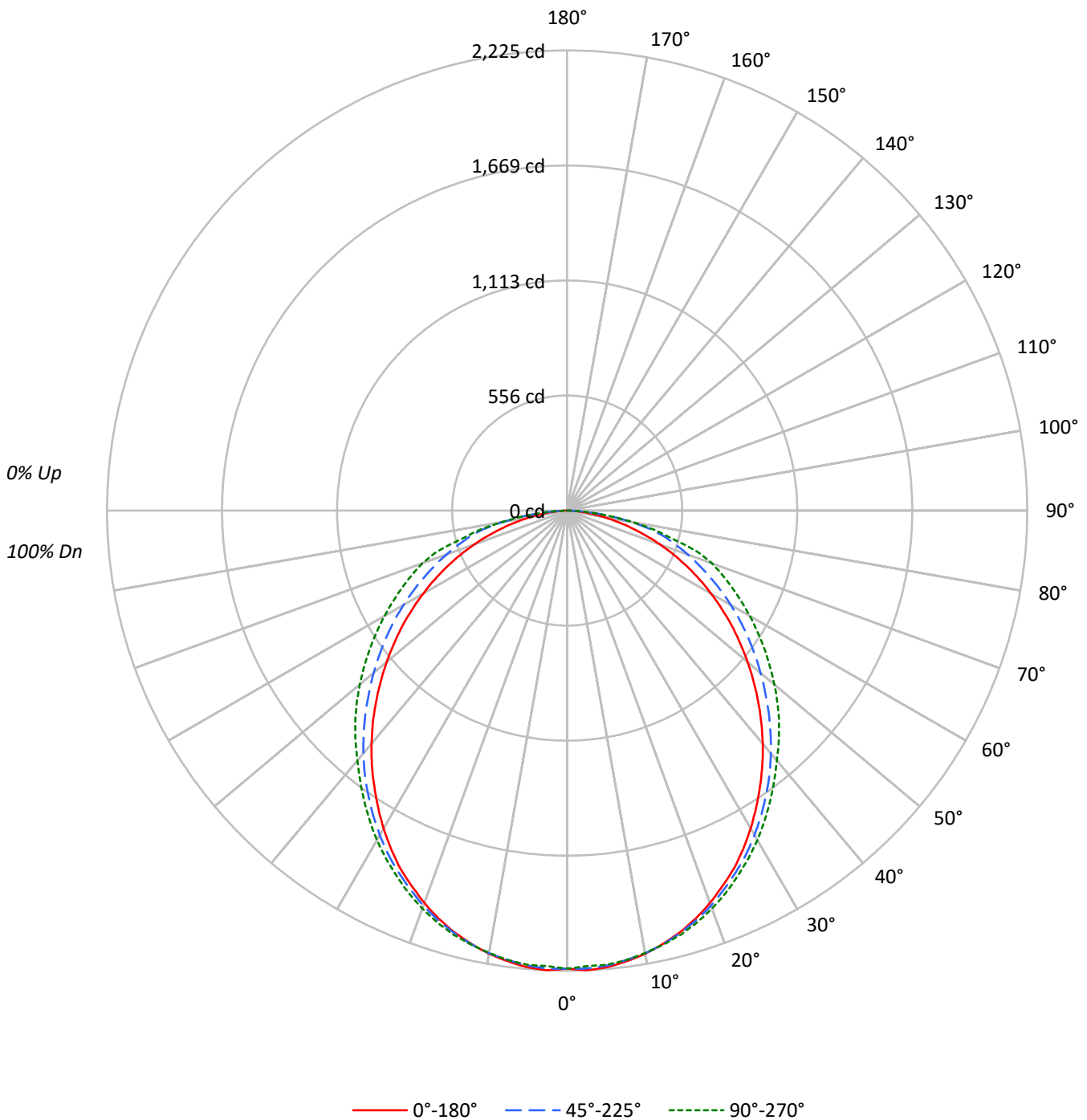
Input Watts (W): 48.918
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2980	2980	2980
5°	2994	2983	2977
10°	2973	2970	2967
15°	2940	2946	2957
20°	2891	2911	2932
25°	2834	2865	2895
30°	2757	2814	2859
35°	2671	2755	2812
40°	2585	2692	2771
45°	2486	2622	2758
50°	2386	2556	2739
55°	2282	2502	2731
60°	2164	2459	2744
65°	2035	2430	2799
70°	1874	2442	2930
75°	1661	2529	2730
80°	1388	2397	2460
85°	1037	1917	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	3.4
10°-20°	595.4	9.7
20°-30°	887.4	14.5
30°-40°	1044.6	17.1
40°-50°	1061.5	17.4
50°-60°	954.4	15.6
60°-70°	754.0	12.3
70°-80°	478.3	7.8
80°-90°	132.0	2.2
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°	1692.2	27.7
0°-40°	2736.8	44.7
0°-60°	4752.7	77.7
0°-90°	6117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2214	2214	2214	2214	2214	
5°	2216	2198	2208	2204	2204	210
15°	2111	2100	2115	2121	2123	595
25°	1909	1907	1930	1942	1950	878
35°	1626	1636	1677	1696	1712	1017
45°	1307	1325	1378	1419	1449	1008
55°	973	997	1066	1136	1164	869
65°	639	672	763	847	879	633
75°	320	374	486	529	525	340
85°	67	116	124	114	114	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2214.5	2214.5	2214.5	2214.5	2214.5
2.5°	2224.6	2208.4	2216.5	2212.4	2204.3
5°	2216.5	2198.2	2208.4	2204.3	2204.3
7.5°	2198.2	2183.9	2192.1	2190.0	2192.1
10°	2175.8	2161.5	2173.8	2173.8	2171.7
12.5°	2145.3	2133.1	2147.3	2147.3	2149.3
15°	2110.7	2100.5	2114.7	2120.8	2122.9
17.5°	2067.9	2057.7	2076.1	2082.2	2088.3
20°	2019.1	2015.0	2033.3	2039.4	2047.6
22.5°	1964.1	1964.1	1982.4	1990.6	2002.8
25°	1909.2	1907.1	1929.5	1941.7	1949.9
27.5°	1844.0	1846.1	1874.6	1886.8	1897.0
30°	1774.8	1778.9	1811.5	1825.7	1840.0
32.5°	1701.6	1709.7	1746.3	1762.6	1776.9
35°	1626.2	1636.4	1677.1	1695.5	1711.7
37.5°	1550.9	1565.2	1607.9	1626.2	1644.6
40°	1471.6	1483.8	1532.6	1555.0	1577.4
42.5°	1390.1	1406.4	1455.3	1487.8	1514.3
45°	1306.7	1325.0	1377.9	1418.6	1449.2
47.5°	1223.2	1247.7	1298.6	1353.5	1380.0
50°	1139.8	1164.2	1221.2	1282.3	1308.7
52.5°	1054.3	1078.7	1143.9	1207.0	1235.5
55°	972.9	997.3	1066.5	1135.7	1164.2
57.5°	887.4	913.9	991.2	1062.5	1091.0
60°	804.0	830.4	913.9	989.2	1019.7
62.5°	722.6	751.0	838.6	917.9	948.5
65°	639.1	671.7	763.3	846.7	879.3
67.5°	557.7	594.3	690.0	777.5	812.1
70°	476.3	519.0	620.8	710.3	744.9
72.5°	396.9	443.7	551.6	641.1	659.5
75°	319.6	374.5	486.4	529.2	525.1
77.5°	246.3	307.3	413.2	421.3	433.5
80°	179.1	246.3	309.4	325.7	317.5
82.5°	118.1	185.2	221.9	213.7	211.7
85°	67.2	116.0	124.2	114.0	114.0
87.5°	28.5	46.8	40.7	30.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)