

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: P261187

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261187
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6512.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

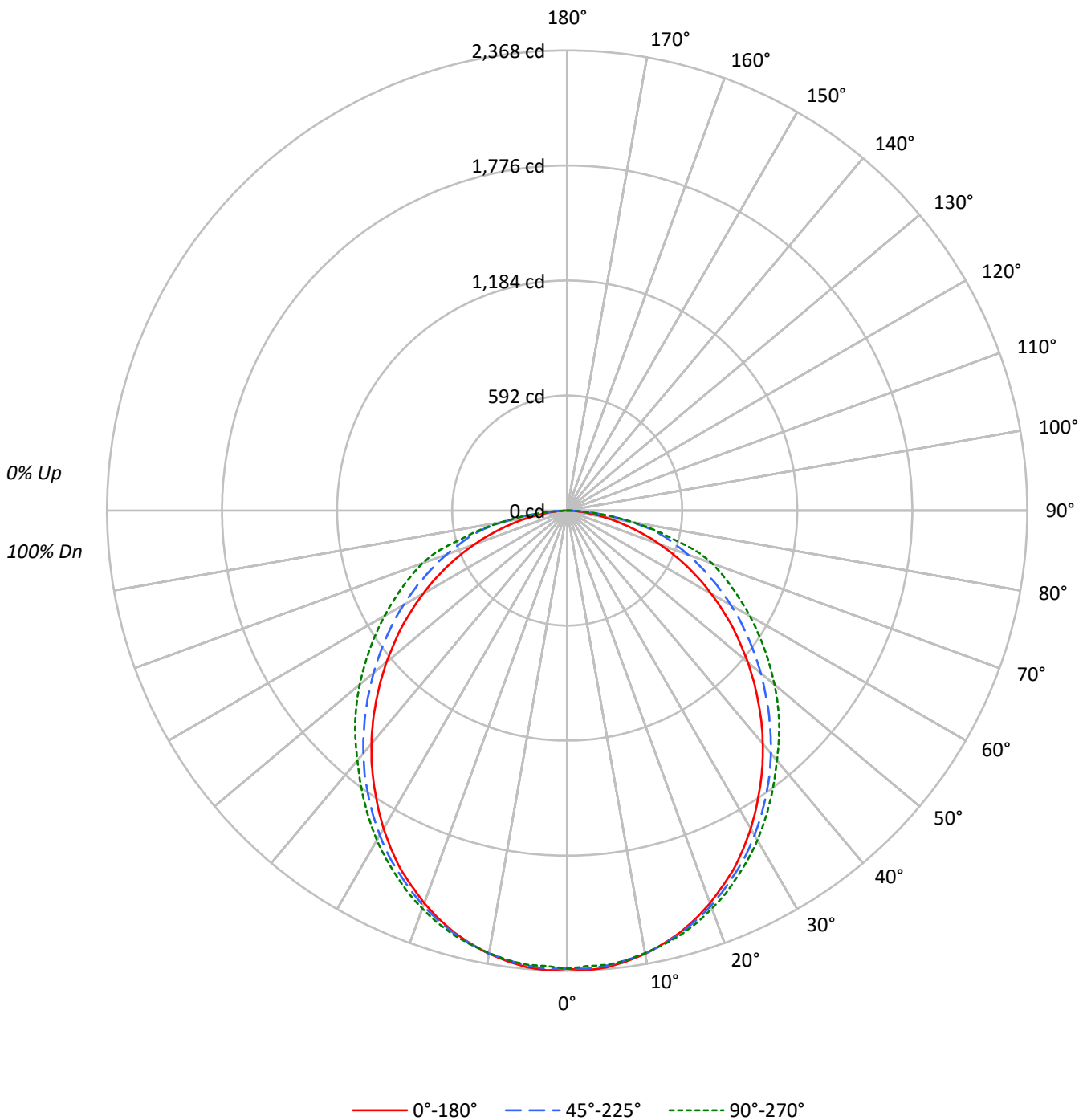
Input Watts (W): 49.104
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3172	3172	3172
5°	3187	3175	3169
10°	3165	3162	3159
15°	3130	3136	3148
20°	3078	3099	3121
25°	3017	3049	3082
30°	2935	2996	3043
35°	2844	2933	2993
40°	2752	2866	2950
45°	2647	2791	2936
50°	2540	2721	2916
55°	2430	2663	2907
60°	2303	2618	2921
65°	2166	2587	2980
70°	1995	2600	3120
75°	1769	2692	2906
80°	1478	2552	2619
85°	1104	2041	1873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.4
10°-20°	633.9	9.7
20°-30°	944.7	14.5
30°-40°	1112.0	17.1
40°-50°	1130.1	17.4
50°-60°	1016.0	15.6
60°-70°	802.7	12.3
70°-80°	509.2	7.8
80°-90°	140.5	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°	1801.5	27.7
0°-40°	2913.5	44.7
0°-60°	5059.6	77.7
0°-90°	6512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2360	2340	2351	2347	2347	224
15°	2247	2236	2251	2258	2260	633
25°	2032	2030	2054	2067	2076	934
35°	1731	1742	1785	1805	1822	1083
45°	1391	1411	1467	1510	1543	1073
55°	1036	1062	1135	1209	1239	925
65°	680	715	812	901	936	674
75°	340	399	518	563	559	362
85°	72	124	132	121	121	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2357.5	2357.5	2357.5	2357.5	2357.5
2.5°	2368.3	2351.0	2359.6	2355.3	2346.6
5°	2359.6	2340.1	2351.0	2346.6	2346.6
7.5°	2340.1	2325.0	2333.6	2331.5	2333.6
10°	2316.3	2301.1	2314.1	2314.1	2312.0
12.5°	2283.8	2270.8	2286.0	2286.0	2288.1
15°	2247.0	2236.1	2251.3	2257.8	2260.0
17.5°	2201.5	2190.6	2210.1	2216.6	2223.1
20°	2149.5	2145.1	2164.6	2171.1	2179.8
22.5°	2090.9	2090.9	2110.5	2119.1	2132.1
25°	2032.4	2030.3	2054.1	2067.1	2075.8
27.5°	1963.1	1965.3	1995.6	2008.6	2019.4
30°	1889.4	1893.8	1928.4	1943.6	1958.8
32.5°	1811.4	1820.1	1859.1	1876.4	1891.6
35°	1731.3	1742.1	1785.4	1804.9	1822.3
37.5°	1651.1	1666.3	1711.8	1731.3	1750.8
40°	1566.6	1579.6	1631.6	1655.4	1679.3
42.5°	1479.9	1497.2	1549.3	1583.9	1612.1
45°	1391.1	1410.6	1466.9	1510.3	1542.8
47.5°	1302.2	1328.2	1382.4	1440.9	1469.1
50°	1213.4	1239.4	1300.1	1365.1	1393.2
52.5°	1122.4	1148.4	1217.7	1284.9	1315.2
55°	1035.7	1061.7	1135.4	1209.1	1239.4
57.5°	944.7	972.9	1055.2	1131.1	1161.4
60°	855.9	884.0	972.9	1053.1	1085.6
62.5°	769.2	799.5	892.7	977.2	1009.7
65°	680.4	715.0	812.5	901.4	936.1
67.5°	593.7	632.7	734.5	827.7	864.5
70°	507.0	552.5	660.9	756.2	793.0
72.5°	422.5	472.4	587.2	682.5	702.0
75°	340.2	398.7	517.9	563.4	559.0
77.5°	262.2	327.2	439.9	448.5	461.5
80°	190.7	262.2	329.4	346.7	338.0
82.5°	125.7	197.2	236.2	227.5	225.3
85°	71.5	123.5	132.2	121.3	121.3
87.5°	30.3	49.8	43.3	32.5	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)