

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: P260784

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260784  
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-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: 7117.0 lumens  
Efficiency: N/A  
Efficacy: 122.6 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

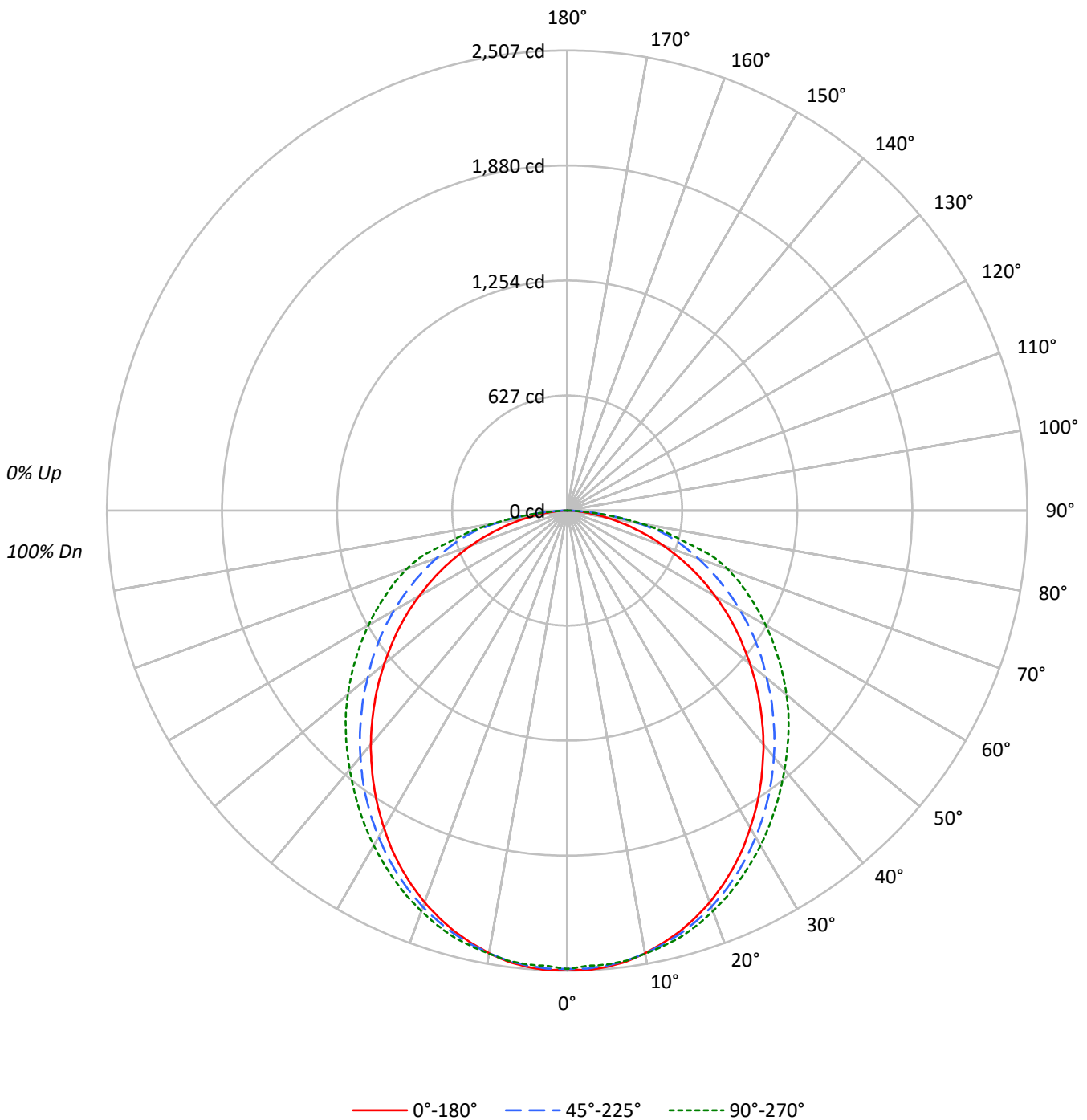
Input Watts (W): 58.032  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3361	3361	3361
5°	3370	3360	3354
10°	3346	3346	3349
15°	3306	3323	3347
20°	3252	3290	3325
25°	3184	3245	3299
30°	3101	3191	3275
35°	3014	3138	3250
40°	2923	3077	3236
45°	2824	3018	3246
50°	2724	2969	3264
55°	2624	2950	3298
60°	2505	2931	3364
65°	2374	2933	3476
70°	2195	2981	3662
75°	1964	3116	3484
80°	1643	2983	3191
85°	1241	2294	2181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.0	3.3
10°-20°	671.8	9.4
20°-30°	1004.2	14.1
30°-40°	1191.3	16.7
40°-50°	1226.2	17.2
50°-60°	1124.9	15.8
60°-70°	909.5	12.8
70°-80°	590.3	8.3
80°-90°	162.8	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°	1912.0	26.9
0°-40°	3103.4	43.6
0°-60°	5454.4	76.6
0°-90°	7117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7117.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2498	2498	2498	2498	2498	
5°	2495	2478	2488	2486	2483	237
15°	2373	2364	2386	2395	2403	669
25°	2144	2147	2186	2205	2222	987
35°	1835	1850	1910	1952	1979	1147
45°	1484	1508	1586	1662	1706	1145
55°	1118	1153	1257	1360	1406	999
65°	746	790	921	1043	1092	737
75°	378	448	599	670	670	401
85°	80	136	149	144	141	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2497.7	2497.7	2497.7	2497.7	2497.7
2.5°	2507.4	2487.9	2497.7	2495.3	2483.1
5°	2495.3	2478.2	2487.9	2485.5	2483.1
7.5°	2478.2	2461.1	2473.3	2470.9	2473.3
10°	2449.0	2434.3	2449.0	2451.4	2451.4
12.5°	2412.4	2400.2	2419.7	2424.6	2429.5
15°	2373.4	2363.7	2385.6	2395.4	2402.7
17.5°	2324.7	2317.4	2344.2	2356.4	2366.1
20°	2271.1	2268.6	2297.9	2310.1	2322.2
22.5°	2210.2	2210.2	2244.3	2258.9	2276.0
25°	2144.4	2146.8	2185.8	2205.3	2222.3
27.5°	2073.7	2076.1	2122.4	2146.8	2166.3
30°	1995.7	2005.5	2054.2	2085.9	2107.8
32.5°	1917.7	1929.9	1983.5	2020.1	2044.5
35°	1834.9	1849.5	1910.4	1951.9	1978.7
37.5°	1749.6	1766.7	1832.5	1878.8	1910.4
40°	1664.3	1683.8	1752.0	1805.7	1842.2
42.5°	1574.2	1596.1	1671.6	1735.0	1774.0
45°	1484.0	1508.4	1586.3	1661.9	1705.7
47.5°	1393.8	1423.1	1505.9	1588.8	1635.1
50°	1301.2	1330.5	1418.2	1513.2	1559.5
52.5°	1208.6	1242.8	1340.2	1437.7	1484.0
55°	1118.5	1152.6	1257.4	1359.7	1406.0
57.5°	1025.9	1060.0	1174.5	1281.7	1328.0
60°	930.8	969.8	1089.2	1198.9	1250.1
62.5°	838.3	879.7	1006.4	1123.4	1172.1
65°	745.7	789.5	921.1	1042.9	1091.7
67.5°	650.6	701.8	838.3	962.5	1013.7
70°	558.0	614.1	757.8	882.1	930.8
72.5°	467.9	528.8	677.4	804.1	833.4
75°	377.7	448.4	599.4	670.1	670.1
77.5°	292.4	370.4	511.7	538.5	553.1
80°	212.0	297.3	385.0	416.7	411.8
82.5°	141.3	226.6	275.4	275.4	268.0
85°	80.4	136.5	148.6	143.8	141.3
87.5°	34.1	51.2	46.3	36.6	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)