

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: P261338

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261338  
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-LD5-75-S-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6025.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

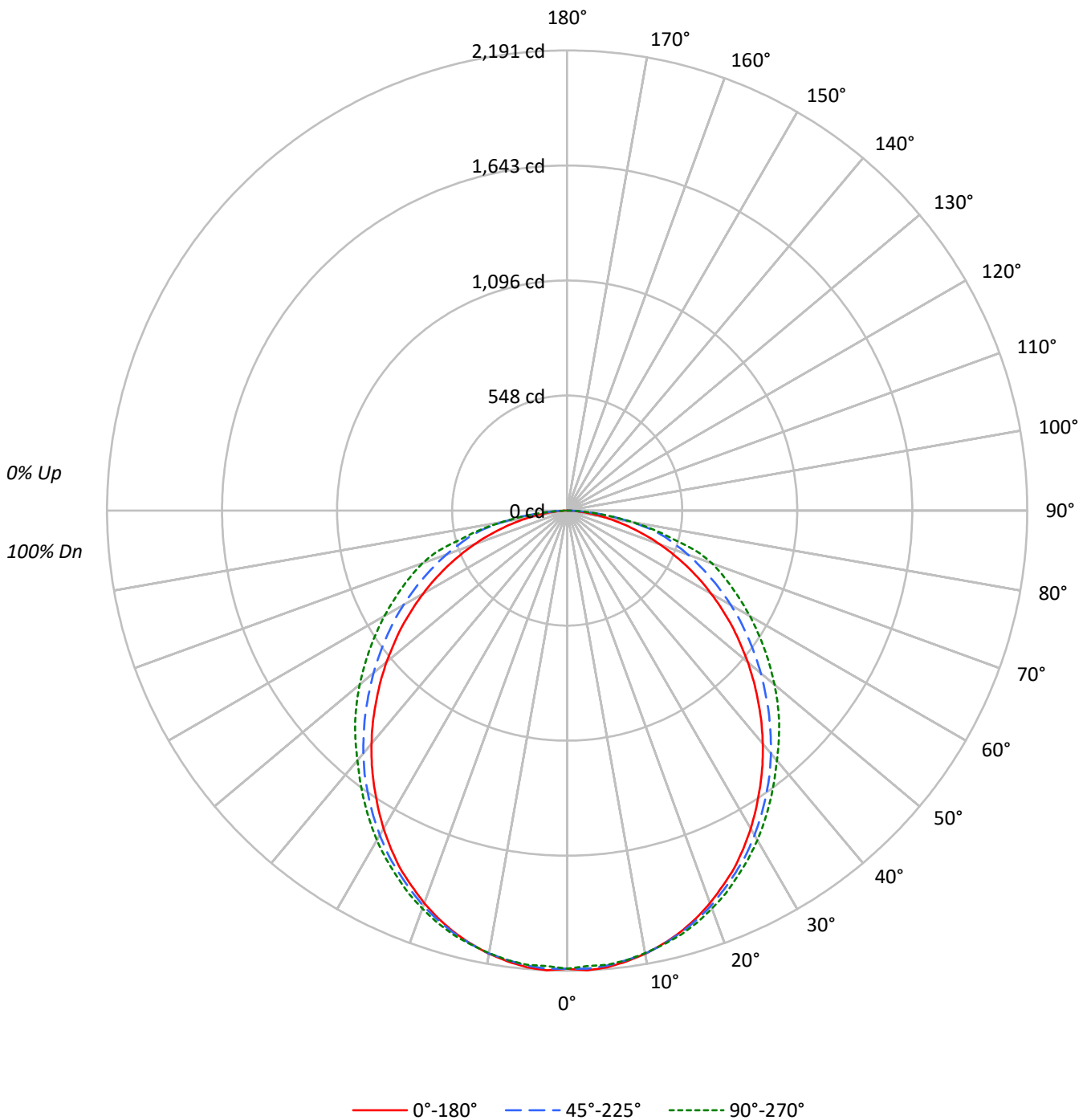
Input Watts (W): 58.311  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2935	2935	2935
5°	2949	2938	2932
10°	2928	2925	2923
15°	2896	2901	2913
20°	2847	2868	2888
25°	2792	2821	2851
30°	2716	2772	2816
35°	2631	2713	2769
40°	2546	2651	2729
45°	2449	2582	2716
50°	2350	2518	2698
55°	2248	2464	2690
60°	2131	2422	2703
65°	2004	2394	2757
70°	1845	2405	2886
75°	1636	2491	2689
80°	1367	2361	2423
85°	1022	1888	1734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.2	3.4
10°-20°	586.5	9.7
20°-30°	874.0	14.5
30°-40°	1028.9	17.1
40°-50°	1045.6	17.4
50°-60°	940.0	15.6
60°-70°	742.6	12.3
70°-80°	471.1	7.8
80°-90°	130.0	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°	1666.7	27.7
0°-40°	2695.6	44.7
0°-60°	4681.2	77.7
0°-90°	6025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2181	2181	2181	2181	2181	
5°	2183	2165	2175	2171	2171	207
15°	2079	2069	2083	2089	2091	586
25°	1880	1878	1900	1912	1920	865
35°	1602	1612	1652	1670	1686	1002
45°	1287	1305	1357	1397	1427	993
55°	958	982	1050	1119	1147	856
65°	630	662	752	834	866	624
75°	315	369	479	521	517	335
85°	66	114	122	112	112	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2181.2	2181.2	2181.2	2181.2	2181.2
2.5°	2191.2	2175.1	2183.2	2179.2	2171.1
5°	2183.2	2165.1	2175.1	2171.1	2171.1
7.5°	2165.1	2151.1	2159.1	2157.1	2159.1
10°	2143.1	2129.0	2141.1	2141.1	2139.1
12.5°	2113.0	2101.0	2115.0	2115.0	2117.0
15°	2078.9	2068.9	2082.9	2088.9	2090.9
17.5°	2036.8	2026.8	2044.8	2050.9	2056.9
20°	1988.7	1984.7	2002.7	2008.8	2016.8
22.5°	1934.6	1934.6	1952.6	1960.6	1972.7
25°	1880.4	1878.4	1900.5	1912.5	1920.5
27.5°	1816.3	1818.3	1846.4	1858.4	1868.4
30°	1748.1	1752.1	1784.2	1798.3	1812.3
32.5°	1676.0	1684.0	1720.1	1736.1	1750.1
35°	1601.8	1611.8	1651.9	1670.0	1686.0
37.5°	1527.6	1541.6	1583.7	1601.8	1619.8
40°	1449.4	1461.5	1509.6	1531.6	1553.7
42.5°	1369.2	1385.3	1433.4	1465.5	1491.5
45°	1287.0	1305.1	1357.2	1397.3	1427.4
47.5°	1204.9	1228.9	1279.0	1333.2	1359.2
50°	1122.7	1146.7	1202.8	1263.0	1289.1
52.5°	1038.5	1062.5	1126.7	1188.8	1216.9
55°	958.3	982.3	1050.5	1118.6	1146.7
57.5°	874.1	900.1	976.3	1046.5	1074.5
60°	791.9	817.9	900.1	974.3	1004.4
62.5°	711.7	739.8	826.0	904.1	934.2
65°	629.5	661.6	751.8	834.0	866.0
67.5°	549.3	585.4	679.6	765.8	799.9
70°	469.1	511.2	611.4	699.7	733.7
72.5°	390.9	437.0	543.3	631.5	649.5
75°	314.7	368.9	479.1	521.2	517.2
77.5°	242.6	302.7	407.0	415.0	427.0
80°	176.4	242.6	304.7	320.8	312.7
82.5°	116.3	182.4	218.5	210.5	208.5
85°	66.2	114.3	122.3	112.3	112.3
87.5°	28.1	46.1	40.1	30.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)