

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: P260783

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260783  
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-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6917.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

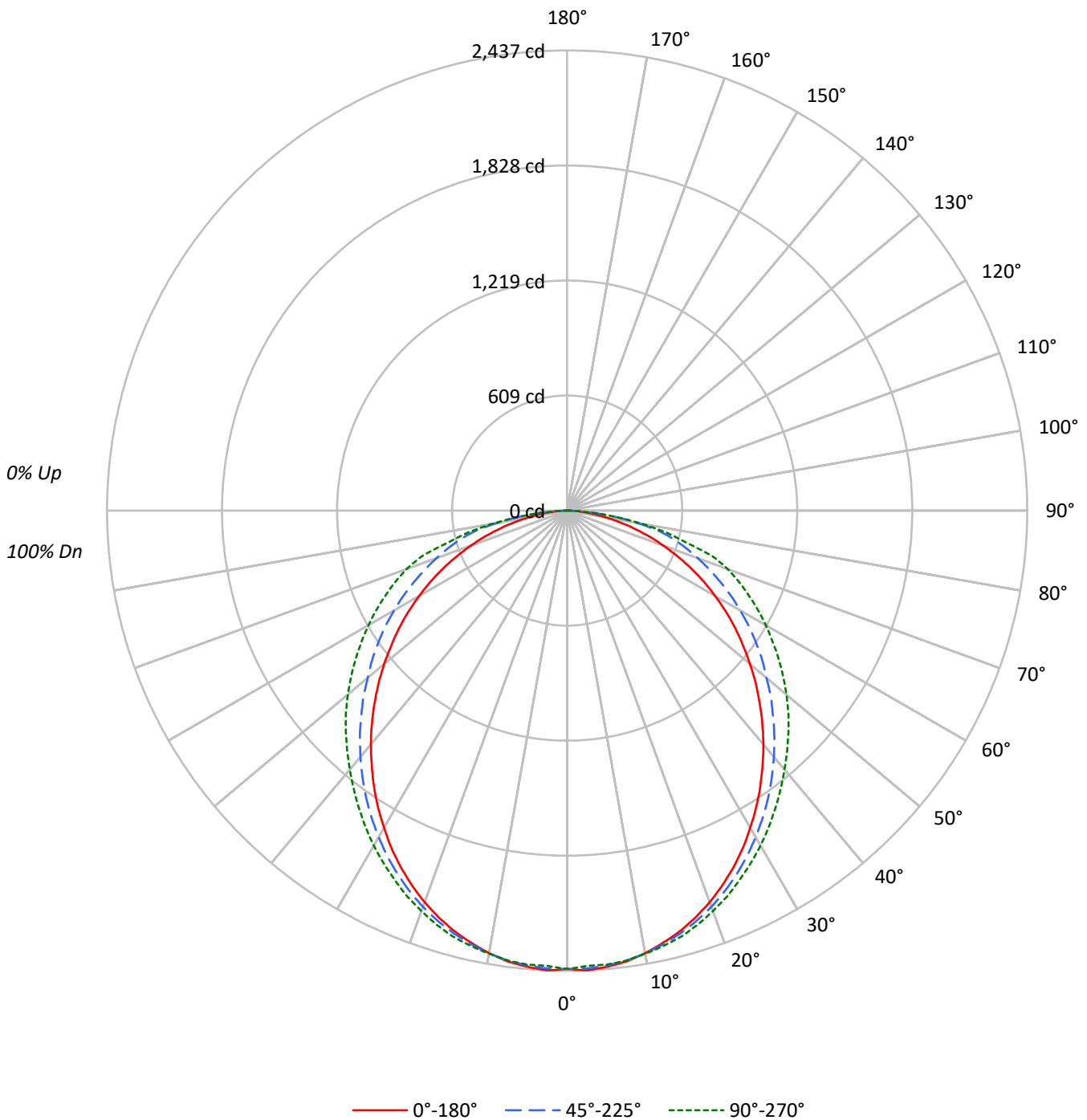
Input Watts (W): 58.404  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3266	3266	3266
5°	3275	3266	3259
10°	3252	3252	3255
15°	3213	3230	3253
20°	3161	3198	3232
25°	3094	3154	3207
30°	3013	3102	3183
35°	2929	3050	3159
40°	2841	2991	3145
45°	2744	2934	3154
50°	2647	2885	3173
55°	2550	2867	3206
60°	2435	2849	3269
65°	2307	2850	3378
70°	2133	2897	3559
75°	1908	3029	3386
80°	1596	2899	3101
85°	1207	2231	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	3.3
10°-20°	652.9	9.4
20°-30°	976.0	14.1
30°-40°	1157.9	16.7
40°-50°	1191.7	17.2
50°-60°	1093.3	15.8
60°-70°	884.0	12.8
70°-80°	573.7	8.3
80°-90°	158.2	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°	1858.3	26.9
0°-40°	3016.1	43.6
0°-60°	5301.2	76.6
0°-90°	6917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2428	2428	2428	2428	2428	
5°	2425	2409	2418	2416	2413	230
15°	2307	2297	2319	2328	2335	650
25°	2084	2086	2124	2143	2160	959
35°	1783	1798	1857	1897	1923	1115
45°	1442	1466	1542	1615	1658	1113
55°	1087	1120	1222	1322	1366	971
65°	725	767	895	1014	1061	716
75°	367	436	583	651	651	390
85°	78	133	144	140	137	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2427.5	2427.5	2427.5	2427.5	2427.5
2.5°	2437.0	2418.0	2427.5	2425.1	2413.3
5°	2425.1	2408.6	2418.0	2415.7	2413.3
7.5°	2408.6	2392.0	2403.8	2401.5	2403.8
10°	2380.1	2365.9	2380.1	2382.5	2382.5
12.5°	2344.6	2332.8	2351.7	2356.5	2361.2
15°	2306.7	2297.3	2318.6	2328.0	2335.1
17.5°	2259.4	2252.3	2278.3	2290.1	2299.6
20°	2207.3	2204.9	2233.3	2245.1	2257.0
22.5°	2148.0	2148.0	2181.2	2195.4	2212.0
25°	2084.1	2086.5	2124.4	2143.3	2159.9
27.5°	2015.4	2017.8	2062.8	2086.5	2105.4
30°	1939.6	1949.1	1996.5	2027.3	2048.6
32.5°	1863.9	1875.7	1927.8	1963.3	1987.0
35°	1783.3	1797.5	1856.7	1897.0	1923.1
37.5°	1700.4	1717.0	1781.0	1826.0	1856.7
40°	1617.5	1636.5	1702.8	1754.9	1790.4
42.5°	1529.9	1551.2	1624.7	1686.2	1724.1
45°	1442.3	1466.0	1541.8	1615.2	1657.8
47.5°	1354.7	1383.1	1463.6	1544.1	1589.1
50°	1264.7	1293.1	1378.4	1470.7	1515.7
52.5°	1174.7	1207.8	1302.6	1397.3	1442.3
55°	1087.0	1120.2	1222.0	1321.5	1366.5
57.5°	997.1	1030.2	1141.5	1245.7	1290.7
60°	904.7	942.6	1058.6	1165.2	1214.9
62.5°	814.7	855.0	978.1	1091.8	1139.2
65°	724.7	767.3	895.2	1013.6	1061.0
67.5°	632.3	682.1	814.7	935.5	985.2
70°	542.3	596.8	736.5	857.3	904.7
72.5°	454.7	513.9	658.4	781.5	810.0
75°	367.1	435.8	582.6	651.3	651.3
77.5°	284.2	360.0	497.3	523.4	537.6
80°	206.0	288.9	374.2	405.0	400.2
82.5°	137.4	220.3	267.6	267.6	260.5
85°	78.2	132.6	144.5	139.7	137.4
87.5°	33.2	49.7	45.0	35.5	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)