

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: P276266

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-75HE-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6767.7 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

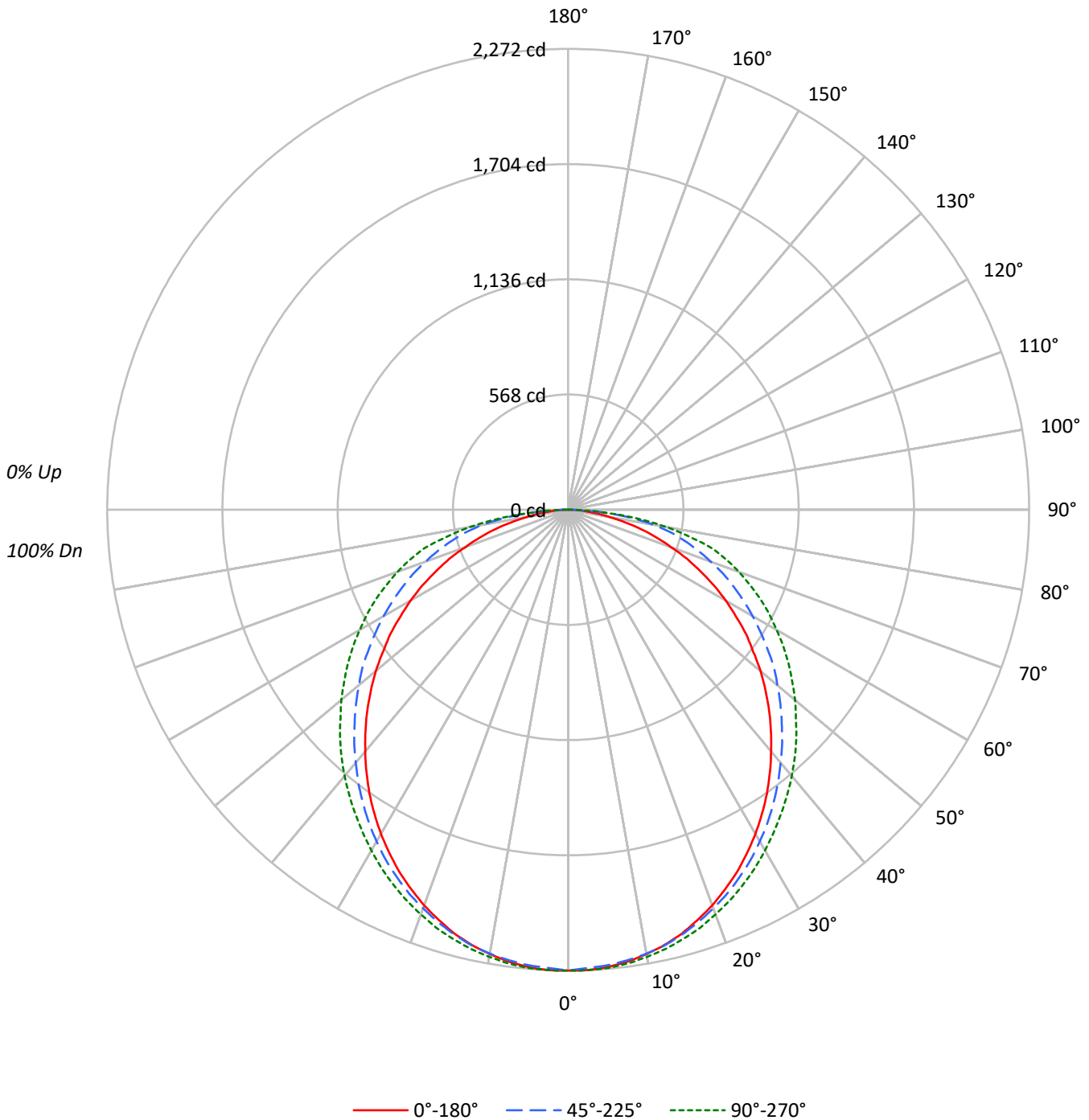
Input Watts (W): 61.101  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	3057	3057	3057
5°	3057	3045	3063
10°	3040	3036	3058
15°	3014	3020	3052
20°	2972	2995	3040
25°	2924	2968	3028
30°	2867	2934	3014
35°	2805	2897	3005
40°	2733	2860	3011
45°	2665	2832	3026
50°	2591	2818	3054
55°	2511	2814	3110
60°	2413	2826	3191
65°	2287	2869	3330
70°	2124	2941	3519
75°	1938	3088	3816
80°	1592	3325	3815
85°	1221	3069	3277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.9	3.2
10°-20°	613.5	9.1
20°-30°	923.2	13.6
30°-40°	1106.4	16.3
40°-50°	1153.0	17.0
50°-60°	1072.7	15.9
60°-70°	883.5	13.1
70°-80°	601.7	8.9
80°-90°	198.7	2.9
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°	1751.7	25.9
0°-40°	2858.1	42.2
0°-60°	5083.8	75.1
0°-90°	6767.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2263	2263	2254	2266	2268	215
15°	2164	2166	2168	2189	2191	610
25°	1970	1979	1999	2033	2040	907
35°	1708	1728	1764	1812	1830	1067
45°	1400	1430	1488	1563	1590	1080
55°	1071	1107	1199	1294	1326	954
65°	718	779	901	1007	1046	713
75°	373	456	594	700	734	393
85°	79	154	199	212	212	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2272.2	2272.2	2260.9	2272.2	2272.2
5°	2263.2	2263.2	2254.2	2265.5	2267.7
7.5°	2247.4	2249.6	2240.6	2254.2	2256.4
10°	2224.8	2227.1	2222.5	2236.1	2238.3
12.5°	2197.7	2199.9	2199.9	2215.8	2218.0
15°	2163.8	2166.1	2168.3	2188.7	2190.9
17.5°	2120.9	2127.7	2132.2	2157.0	2161.6
20°	2075.7	2082.5	2091.5	2118.6	2123.2
22.5°	2023.8	2032.8	2048.6	2078.0	2084.8
25°	1969.6	1978.6	1998.9	2032.8	2039.6
27.5°	1908.6	1922.1	1947.0	1983.1	1992.2
30°	1845.3	1858.9	1888.3	1926.6	1940.2
32.5°	1777.6	1795.6	1829.5	1872.4	1886.0
35°	1707.6	1727.9	1764.0	1811.5	1829.5
37.5°	1633.0	1655.6	1698.5	1750.5	1773.1
40°	1556.2	1583.3	1628.5	1689.5	1714.3
42.5°	1479.4	1504.3	1560.7	1626.2	1653.3
45°	1400.4	1429.7	1488.5	1563.0	1590.1
47.5°	1319.1	1348.4	1418.4	1497.5	1522.3
50°	1237.8	1267.1	1346.2	1429.7	1459.1
52.5°	1149.7	1188.1	1278.4	1362.0	1391.3
55°	1070.6	1106.8	1199.4	1294.2	1325.8
57.5°	980.3	1023.2	1124.8	1224.2	1258.1
60°	896.7	941.9	1050.3	1151.9	1185.8
62.5°	810.9	860.6	975.7	1079.6	1118.0
65°	718.3	779.2	901.2	1007.4	1045.8
67.5°	634.7	697.9	826.7	935.1	969.0
70°	539.8	616.6	747.6	856.0	894.4
72.5°	458.5	535.3	673.1	779.2	817.6
75°	372.7	456.3	594.0	700.2	734.1
77.5°	286.9	379.5	517.2	598.5	609.8
80°	205.5	302.7	429.1	476.6	492.4
82.5°	144.6	232.6	316.2	347.8	356.9
85°	79.1	153.6	198.8	212.3	212.3
87.5°	33.9	65.5	79.1	81.3	83.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)