

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: P276260

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276260  
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-3500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6100.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

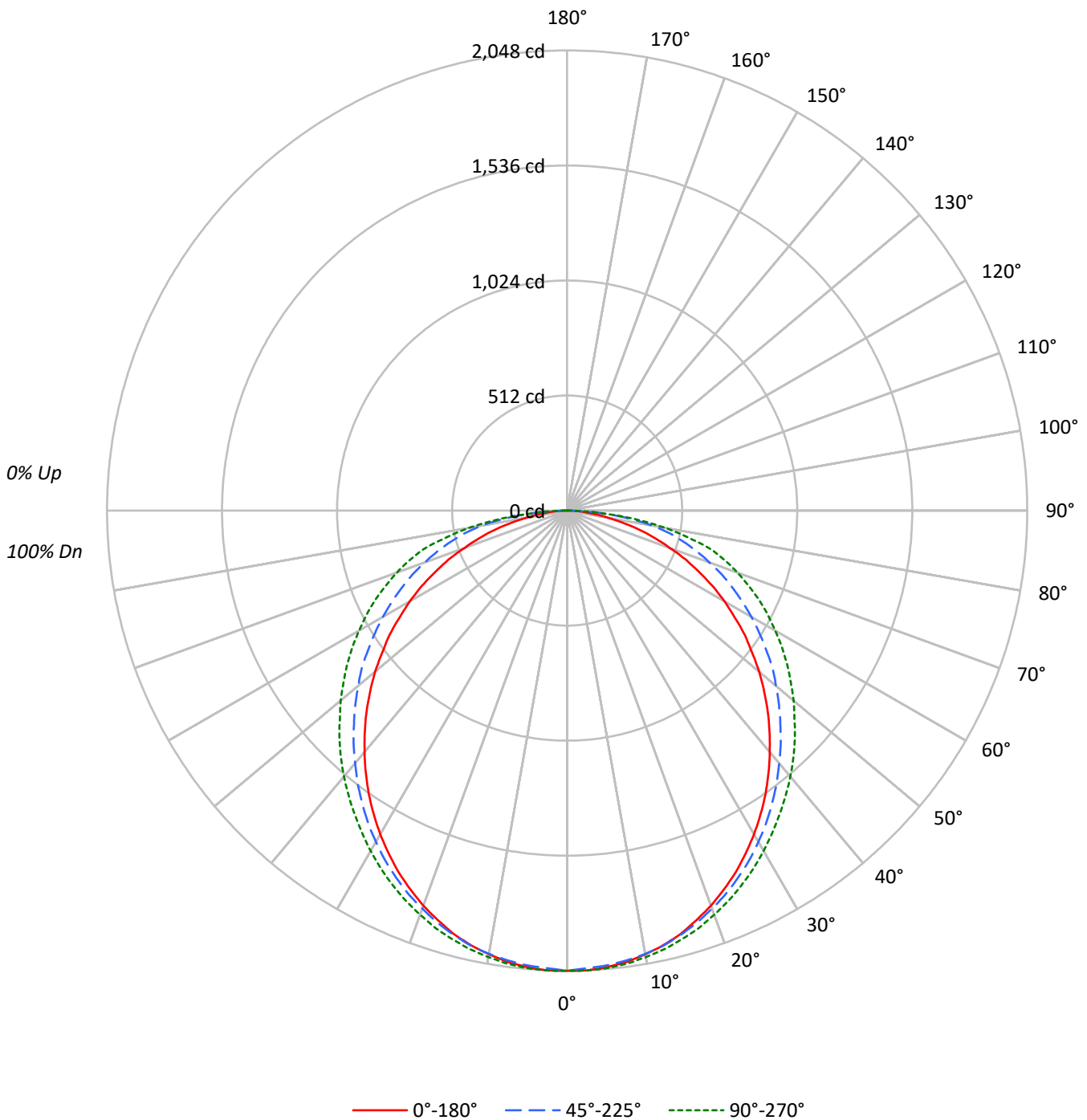
Input Watts (W): 58.497  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2756	2756	2756
5°	2756	2744	2761
10°	2740	2737	2757
15°	2717	2723	2751
20°	2679	2700	2740
25°	2636	2675	2730
30°	2584	2645	2717
35°	2528	2612	2709
40°	2464	2578	2714
45°	2402	2553	2727
50°	2336	2540	2753
55°	2264	2536	2804
60°	2175	2548	2876
65°	2061	2586	3001
70°	1914	2651	3172
75°	1747	2784	3440
80°	1436	2998	3439
85°	1101	2766	2955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.7	3.2
10°-20°	553.1	9.1
20°-30°	832.3	13.6
30°-40°	997.4	16.3
40°-50°	1039.4	17.0
50°-60°	967.0	15.9
60°-70°	796.5	13.1
70°-80°	542.4	8.9
80°-90°	179.1	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°	1579.0	25.9
0°-40°	2576.4	42.2
0°-60°	4582.8	75.1
0°-90°	6100.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6100.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2040	2040	2032	2042	2044	194
15°	1951	1953	1955	1973	1975	550
25°	1776	1784	1802	1832	1839	817
35°	1539	1558	1590	1633	1649	962
45°	1262	1289	1342	1409	1433	974
55°	965	998	1081	1167	1195	860
65°	648	702	812	908	943	643
75°	336	411	536	631	662	354
85°	71	138	179	191	191	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2048.3	2048.3	2048.3	2048.3	2048.3
2.5°	2048.3	2048.3	2038.1	2048.3	2048.3
5°	2040.2	2040.2	2032.0	2042.2	2044.2
7.5°	2025.9	2027.9	2019.8	2032.0	2034.1
10°	2005.5	2007.6	2003.5	2015.7	2017.8
12.5°	1981.1	1983.2	1983.2	1997.4	1999.4
15°	1950.6	1952.6	1954.6	1973.0	1975.0
17.5°	1911.9	1918.0	1922.1	1944.5	1948.5
20°	1871.2	1877.3	1885.4	1909.9	1913.9
22.5°	1824.3	1832.5	1846.7	1873.2	1879.3
25°	1775.5	1783.6	1801.9	1832.5	1838.6
27.5°	1720.5	1732.7	1755.1	1787.7	1795.8
30°	1663.5	1675.7	1702.2	1736.8	1749.0
32.5°	1602.4	1618.7	1649.2	1687.9	1700.1
35°	1539.3	1557.6	1590.2	1632.9	1649.2
37.5°	1472.1	1492.5	1531.1	1578.0	1598.3
40°	1402.9	1427.3	1468.0	1523.0	1545.4
42.5°	1333.6	1356.0	1406.9	1466.0	1490.4
45°	1262.4	1288.8	1341.8	1409.0	1433.4
47.5°	1189.1	1215.5	1278.7	1349.9	1372.3
50°	1115.8	1142.2	1213.5	1288.8	1315.3
52.5°	1036.4	1071.0	1152.4	1227.8	1254.2
55°	965.1	997.7	1081.2	1166.7	1195.2
57.5°	883.7	922.3	1014.0	1103.6	1134.1
60°	808.3	849.0	946.8	1038.4	1068.9
62.5°	731.0	775.8	879.6	973.3	1007.9
65°	647.5	702.5	812.4	908.1	942.7
67.5°	572.1	629.2	745.2	842.9	873.5
70°	486.6	555.9	673.9	771.7	806.3
72.5°	413.3	482.6	606.8	702.5	737.1
75°	336.0	411.3	535.5	631.2	661.7
77.5°	258.6	342.1	466.3	539.6	549.7
80°	185.3	272.8	386.9	429.6	443.9
82.5°	130.3	209.7	285.1	313.6	321.7
85°	71.3	138.5	179.2	191.4	191.4
87.5°	30.5	59.0	71.3	73.3	75.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)