

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: P276125

Luminaire Tested: **24CZ2-75HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276125
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6964.4 lumens
Efficiency: N/A
Efficacy: 118.7 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

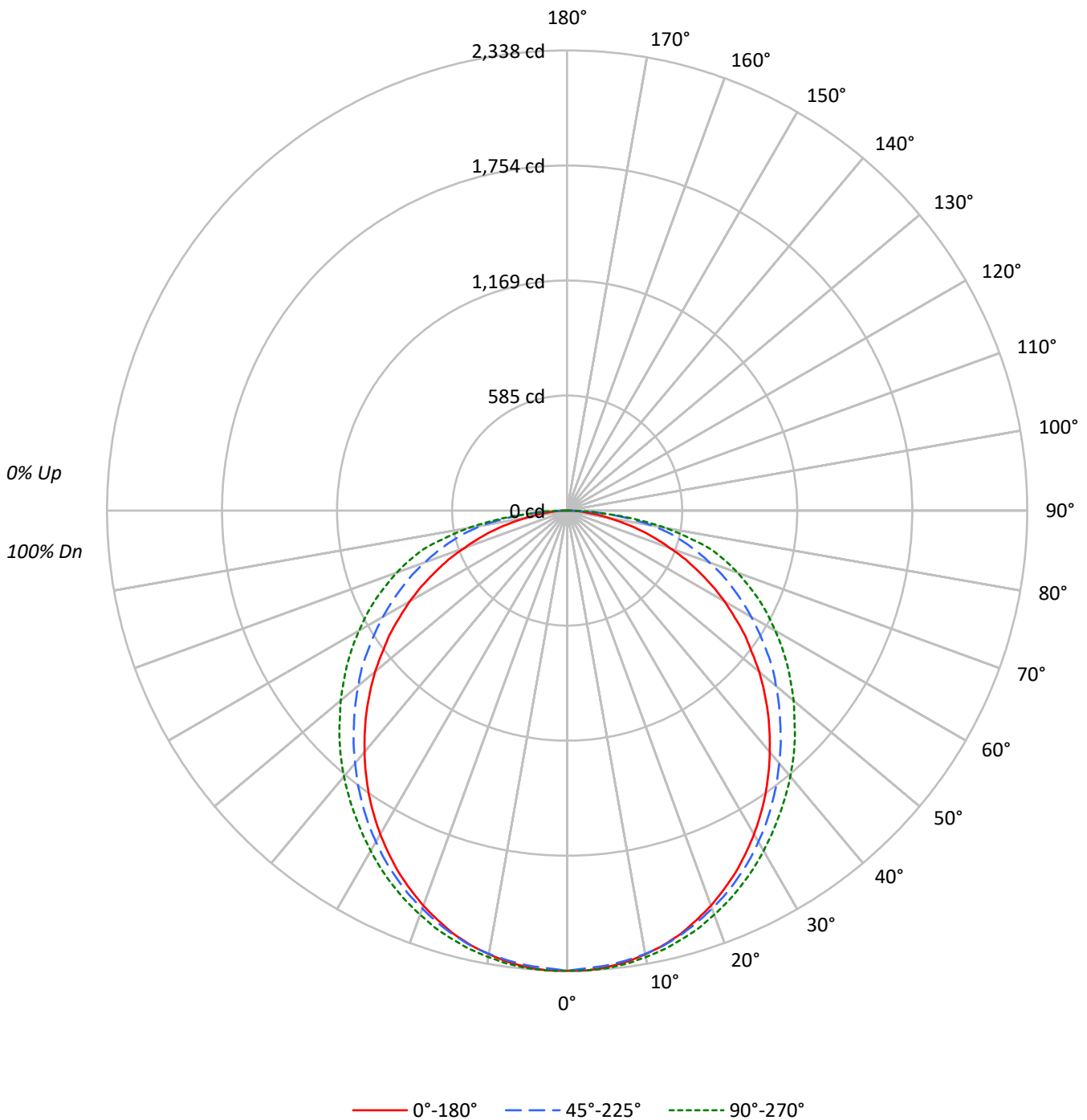
Input Watts (W): 58.683
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276125

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P276125

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-3500K

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°	3146	3146	3146
5°	3146	3133	3152
10°	3128	3125	3147
15°	3102	3108	3141
20°	3059	3082	3128
25°	3009	3054	3116
30°	2950	3019	3102
35°	2886	2982	3092
40°	2813	2944	3099
45°	2742	2915	3114
50°	2666	2900	3143
55°	2584	2895	3201
60°	2483	2908	3284
65°	2353	2953	3426
70°	2185	3027	3621
75°	1994	3178	3927
80°	1639	3422	3926
85°	1257	3157	3373



TEST NUMBER: P276125

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	3.2
10°-20°	631.4	9.1
20°-30°	950.1	13.6
30°-40°	1138.6	16.3
40°-50°	1186.5	17.0
50°-60°	1103.9	15.9
60°-70°	909.2	13.1
70°-80°	619.2	8.9
80°-90°	204.4	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°	1802.6	25.9
0°-40°	2941.2	42.2
0°-60°	5231.6	75.1
0°-90°	6964.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2329	2329	2320	2331	2334	221
15°	2227	2229	2231	2252	2255	627
25°	2027	2036	2057	2092	2099	933
35°	1757	1778	1815	1864	1883	1098
45°	1441	1471	1532	1608	1636	1111
55°	1102	1139	1234	1332	1364	982
65°	739	802	927	1037	1076	734
75°	384	470	611	720	755	404
85°	81	158	204	218	218	101
90°	0	0	0	0	0	



TEST NUMBER: P276125

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2338.3	2338.3	2338.3	2338.3	2338.3
2.5°	2338.3	2338.3	2326.7	2338.3	2338.3
5°	2329.0	2329.0	2319.7	2331.3	2333.6
7.5°	2312.7	2315.0	2305.7	2319.7	2322.0
10°	2289.5	2291.8	2287.2	2301.1	2303.4
12.5°	2261.6	2263.9	2263.9	2280.2	2282.5
15°	2226.7	2229.0	2231.4	2252.3	2254.6
17.5°	2182.6	2189.5	2194.2	2219.7	2224.4
20°	2136.1	2143.0	2152.3	2180.2	2184.9
22.5°	2082.6	2091.9	2108.2	2138.4	2145.4
25°	2026.8	2036.1	2057.0	2091.9	2098.9
27.5°	1964.1	1978.0	2003.6	2040.8	2050.1
30°	1899.0	1912.9	1943.2	1982.7	1996.6
32.5°	1829.3	1847.9	1882.7	1926.9	1940.8
35°	1757.2	1778.1	1815.3	1864.1	1882.7
37.5°	1680.5	1703.7	1747.9	1801.4	1824.6
40°	1601.5	1629.4	1675.9	1738.6	1764.2
42.5°	1522.4	1548.0	1606.1	1673.5	1701.4
45°	1441.1	1471.3	1531.7	1608.4	1636.3
47.5°	1357.4	1387.6	1459.7	1541.0	1566.6
50°	1273.7	1304.0	1385.3	1471.3	1501.5
52.5°	1183.1	1222.6	1315.6	1401.6	1431.8
55°	1101.7	1138.9	1234.2	1331.8	1364.4
57.5°	1008.8	1052.9	1157.5	1259.8	1294.7
60°	922.8	969.3	1080.8	1185.4	1220.3
62.5°	834.4	885.6	1004.1	1111.0	1150.6
65°	739.1	801.9	927.4	1036.7	1076.2
67.5°	653.1	718.2	850.7	962.3	997.1
70°	555.5	634.5	769.4	880.9	920.4
72.5°	471.8	550.9	692.7	801.9	841.4
75°	383.5	469.5	611.3	720.5	755.4
77.5°	295.2	390.5	532.3	616.0	627.6
80°	211.5	311.5	441.6	490.4	506.7
82.5°	148.8	239.4	325.4	357.9	367.2
85°	81.4	158.1	204.5	218.5	218.5
87.5°	34.9	67.4	81.4	83.7	86.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)