

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: P276129

Luminaire Tested: **24CZ2-75HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276129
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7414.8 lumens
Efficiency: N/A
Efficacy: 123.4 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

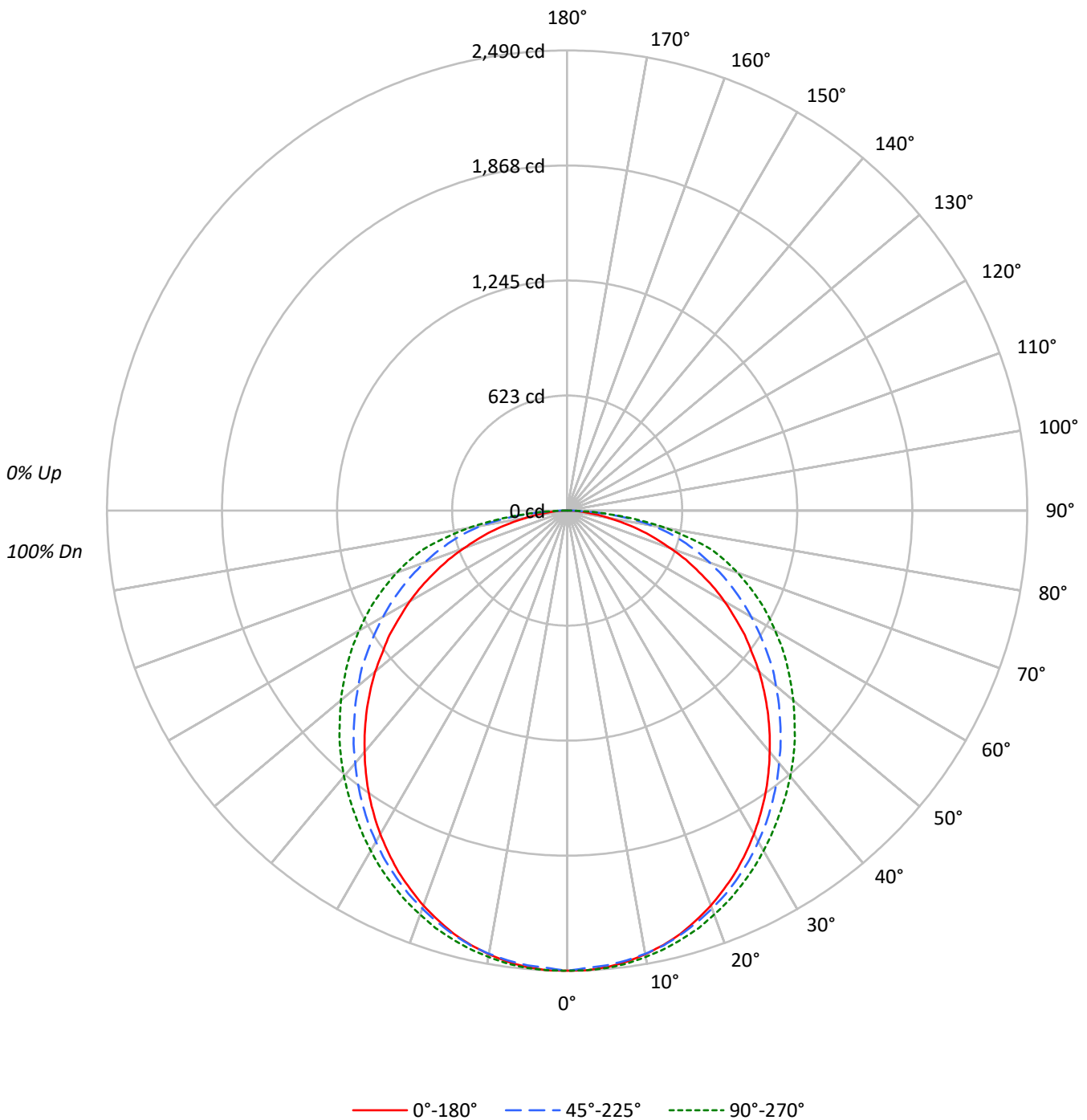
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276129

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P276129

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-5500K

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°	3350	3350	3350
5°	3349	3336	3356
10°	3330	3327	3351
15°	3302	3309	3344
20°	3256	3281	3331
25°	3204	3251	3317
30°	3141	3214	3303
35°	3073	3175	3292
40°	2995	3134	3299
45°	2919	3103	3315
50°	2839	3087	3346
55°	2752	3082	3407
60°	2644	3097	3496
65°	2505	3144	3648
70°	2327	3222	3855
75°	2123	3383	4181
80°	1745	3643	4180
85°	1337	3362	3591



TEST NUMBER: P276129

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.2
10°-20°	672.2	9.1
20°-30°	1011.5	13.6
30°-40°	1212.2	16.3
40°-50°	1263.2	17.0
50°-60°	1175.3	15.9
60°-70°	968.0	13.1
70°-80°	659.2	8.9
80°-90°	217.7	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°	1919.1	25.9
0°-40°	3131.3	42.2
0°-60°	5569.9	75.1
0°-90°	7414.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7414.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2480	2480	2470	2482	2484	235
15°	2371	2373	2376	2398	2400	668
25°	2158	2168	2190	2227	2235	993
35°	1871	1893	1933	1985	2004	1169
45°	1534	1566	1631	1712	1742	1183
55°	1173	1213	1314	1418	1453	1046
65°	787	854	987	1104	1146	781
75°	408	500	651	767	804	431
85°	87	168	218	233	233	107
90°	0	0	0	0	0	



TEST NUMBER: P276129

CATALOG NUMBER: 24CZ2-75HE-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2489.5	2489.5	2489.5	2489.5	2489.5
2.5°	2489.5	2489.5	2477.1	2489.5	2489.5
5°	2479.6	2479.6	2469.7	2482.1	2484.5
7.5°	2462.3	2464.7	2454.8	2469.7	2472.2
10°	2437.5	2440.0	2435.0	2449.9	2452.4
12.5°	2407.8	2410.3	2410.3	2427.6	2430.1
15°	2370.7	2373.2	2375.6	2397.9	2400.4
17.5°	2323.7	2331.1	2336.0	2363.3	2368.2
20°	2274.2	2281.6	2291.5	2321.2	2326.2
22.5°	2217.3	2227.2	2244.5	2276.7	2284.1
25°	2157.9	2167.8	2190.0	2227.2	2234.6
27.5°	2091.1	2105.9	2133.1	2172.7	2182.6
30°	2021.8	2036.6	2068.8	2110.9	2125.7
32.5°	1947.5	1967.3	2004.4	2051.5	2066.3
35°	1870.8	1893.1	1932.7	1984.7	2004.4
37.5°	1789.2	1813.9	1860.9	1917.8	1942.6
40°	1705.0	1734.7	1784.2	1851.0	1878.2
42.5°	1620.9	1648.1	1710.0	1781.7	1811.4
45°	1534.3	1566.4	1630.8	1712.4	1742.1
47.5°	1445.2	1477.4	1554.1	1640.7	1667.9
50°	1356.1	1388.3	1474.9	1566.4	1598.6
52.5°	1259.6	1301.7	1400.6	1492.2	1524.4
55°	1173.0	1212.6	1314.0	1418.0	1452.6
57.5°	1074.0	1121.0	1232.4	1341.2	1378.4
60°	982.4	1031.9	1150.7	1262.1	1299.2
62.5°	888.4	942.8	1069.0	1182.9	1224.9
65°	786.9	853.7	987.4	1103.7	1145.8
67.5°	695.4	764.7	905.7	1024.5	1061.6
70°	591.4	675.6	819.1	937.9	980.0
72.5°	502.3	586.5	737.4	853.7	895.8
75°	408.3	499.9	650.8	767.1	804.3
77.5°	314.3	415.7	566.7	655.8	668.1
80°	225.2	331.6	470.2	522.1	539.5
82.5°	158.4	254.9	346.4	381.1	391.0
85°	86.6	168.3	217.8	232.6	232.6
87.5°	37.1	71.8	86.6	89.1	91.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)