

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: P276551

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831.7 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

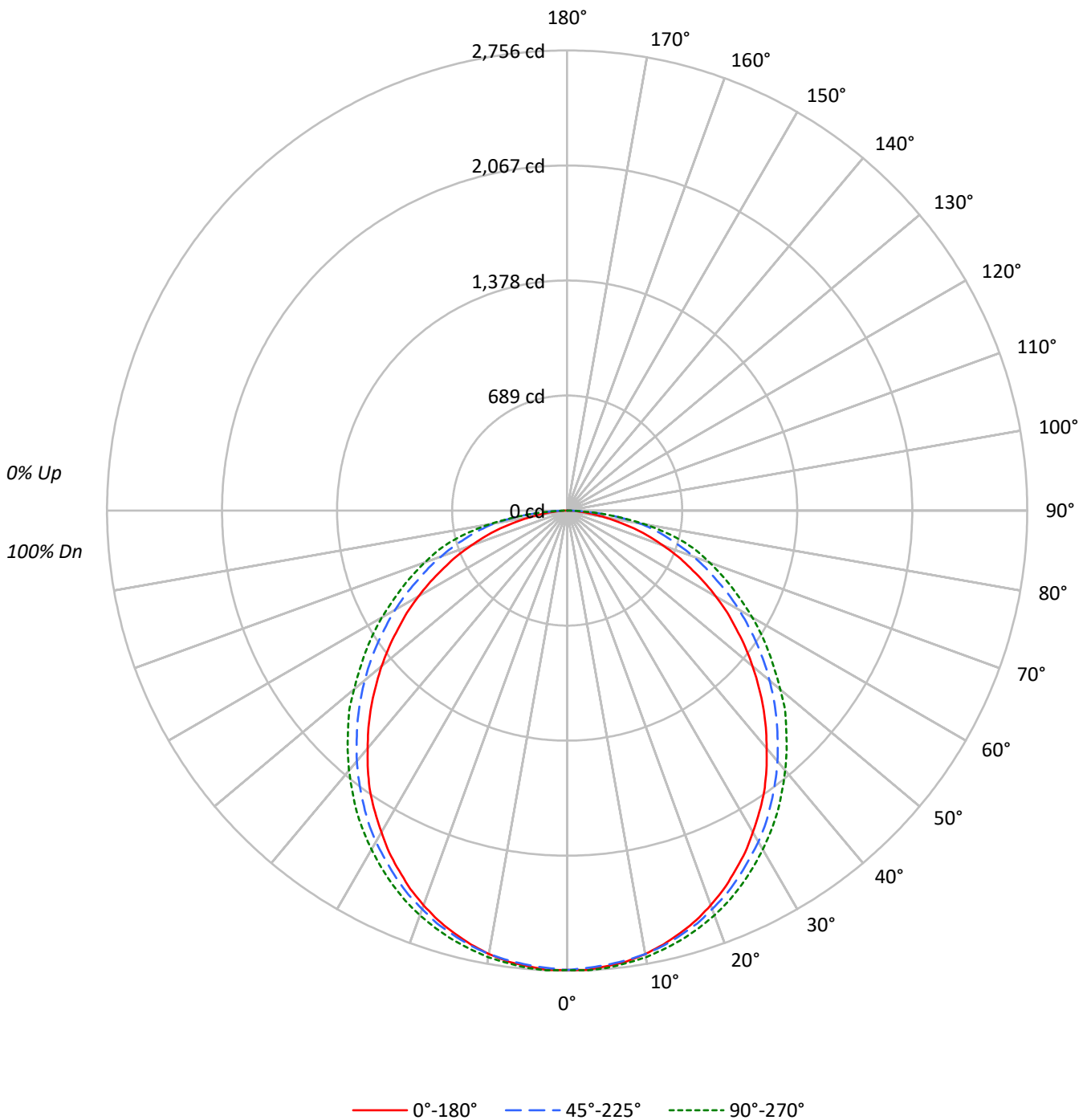
Input Watts (W): 61.008
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276551

CATALOG NUMBER: 24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P276551

CATALOG NUMBER: 24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K

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	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3702	3702	3702
5°	3699	3689	3713
10°	3684	3684	3711
15°	3649	3666	3704
20°	3601	3637	3694
25°	3534	3601	3671
30°	3455	3560	3641
35°	3379	3502	3612
40°	3264	3443	3570
45°	3157	3375	3531
50°	3036	3312	3489
55°	2900	3250	3455
60°	2765	3200	3447
65°	2590	3144	3469
70°	2398	3161	3562
75°	2146	3220	3763
80°	1735	3412	3681
85°	1306	2995	2919



TEST NUMBER: P276551

CATALOG NUMBER: 24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	3.3
10°-20°	744.3	9.5
20°-30°	1118.8	14.3
30°-40°	1332.7	17.0
40°-50°	1363.9	17.4
50°-60°	1227.9	15.7
60°-70°	964.3	12.3
70°-80°	625.8	8.0
80°-90°	193.6	2.5
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°	2123.5	27.1
0°-40°	3456.2	44.1
0°-60°	6048.0	77.2
0°-90°	7831.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7831.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2751	2751	2751	2751	2751	
5°	2739	2744	2731	2746	2749	260
15°	2620	2627	2632	2654	2659	739
25°	2381	2401	2425	2465	2473	1097
35°	2057	2082	2132	2184	2199	1283
45°	1659	1699	1774	1841	1856	1279
55°	1236	1291	1386	1458	1473	1108
65°	814	876	988	1070	1090	810
75°	413	493	619	704	724	437
85°	85	157	194	189	189	102
90°	0	0	0	0	0	



TEST NUMBER: P276551

CATALOG NUMBER: 24CZ2-75HE-S-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2751.3	2751.3	2751.3	2751.3	2751.3
2.5°	2753.8	2753.8	2741.4	2753.8	2756.3
5°	2738.9	2743.9	2731.4	2746.3	2748.8
7.5°	2724.0	2724.0	2716.5	2731.4	2733.9
10°	2696.6	2699.1	2696.6	2714.0	2716.5
12.5°	2661.8	2666.7	2669.2	2686.6	2689.1
15°	2619.5	2626.9	2631.9	2654.3	2659.3
17.5°	2572.2	2579.7	2592.1	2617.0	2622.0
20°	2515.0	2524.9	2539.9	2572.2	2579.7
22.5°	2452.8	2462.8	2487.6	2517.5	2529.9
25°	2380.7	2400.6	2425.4	2465.2	2472.7
27.5°	2308.5	2325.9	2358.3	2400.6	2410.5
30°	2223.9	2251.3	2291.1	2333.4	2343.3
32.5°	2141.9	2169.2	2216.5	2261.3	2273.7
35°	2057.3	2082.1	2131.9	2184.1	2199.1
37.5°	1960.3	1992.6	2047.3	2099.6	2114.5
40°	1858.3	1898.1	1960.3	2015.0	2032.4
42.5°	1761.2	1803.5	1865.7	1925.4	1945.3
45°	1659.3	1699.1	1773.7	1840.8	1855.8
47.5°	1554.8	1599.5	1679.2	1746.3	1771.2
50°	1450.3	1497.6	1582.1	1651.8	1666.7
52.5°	1345.8	1395.6	1485.1	1559.7	1567.2
55°	1236.4	1291.1	1385.6	1457.8	1472.7
57.5°	1136.8	1184.1	1286.1	1360.7	1378.1
60°	1027.4	1079.6	1189.1	1258.7	1281.1
62.5°	922.9	977.6	1092.1	1161.7	1181.6
65°	813.5	875.6	987.6	1069.7	1089.6
67.5°	718.9	778.6	898.0	977.6	997.5
70°	609.5	676.6	803.5	885.6	905.5
72.5°	514.9	584.6	711.5	791.1	820.9
75°	412.9	492.6	619.4	704.0	723.9
77.5°	313.4	405.5	534.8	599.5	599.5
80°	223.9	320.9	440.3	470.2	475.1
82.5°	146.8	241.3	325.9	323.4	323.4
85°	84.6	156.7	194.0	189.1	189.1
87.5°	32.3	64.7	69.7	69.7	67.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)