

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: P276263

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276263
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6591.9 lumens
Efficiency: N/A
Efficacy: 110.2 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

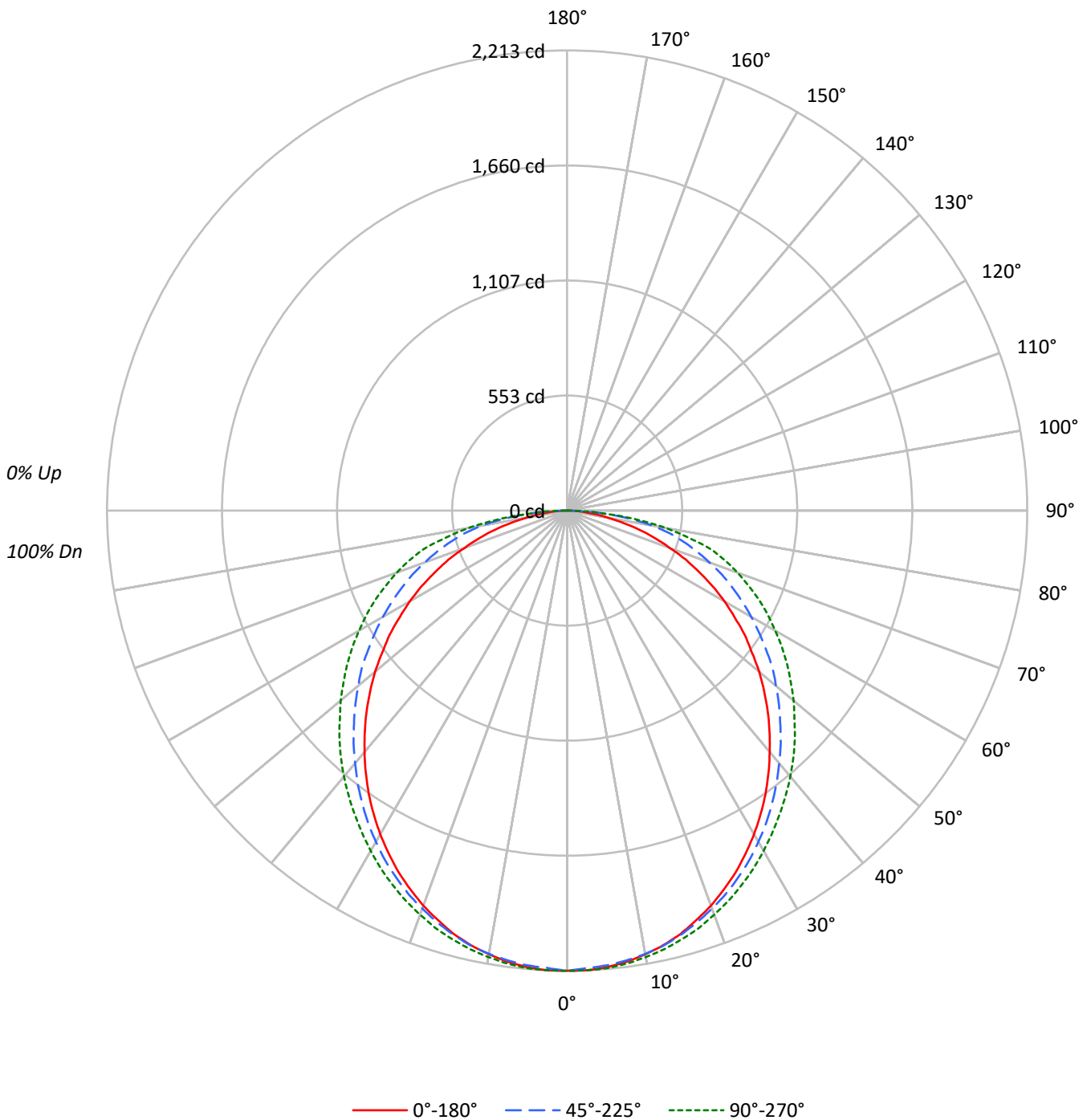
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276263

CATALOG NUMBER: 24CZ2-75HE-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P276263

CATALOG NUMBER: 24CZ2-75HE-UNV-L92765-W2A1-U-5000K

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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2978	2978	2978
5°	2977	2965	2983
10°	2961	2958	2979
15°	2936	2942	2973
20°	2895	2917	2961
25°	2848	2890	2949
30°	2793	2857	2936
35°	2732	2822	2927
40°	2662	2786	2933
45°	2595	2759	2947
50°	2524	2745	2975
55°	2446	2740	3029
60°	2350	2753	3108
65°	2227	2795	3243
70°	2068	2865	3427
75°	1887	3008	3717
80°	1551	3239	3716
85°	1189	2989	3193



TEST NUMBER: P276263

CATALOG NUMBER: 24CZ2-75HE-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	3.2
10°-20°	597.6	9.1
20°-30°	899.3	13.6
30°-40°	1077.7	16.3
40°-50°	1123.0	17.0
50°-60°	1044.9	15.9
60°-70°	860.6	13.1
70°-80°	586.1	8.9
80°-90°	193.5	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°	1706.2	25.9
0°-40°	2783.8	42.2
0°-60°	4951.7	75.1
0°-90°	6591.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6591.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2204	2204	2196	2206	2209	209
15°	2108	2110	2112	2132	2134	594
25°	1918	1927	1947	1980	1987	883
35°	1663	1683	1718	1764	1782	1040
45°	1364	1393	1450	1522	1549	1052
55°	1043	1078	1168	1261	1291	930
65°	700	759	878	981	1019	694
75°	363	444	579	682	715	383
85°	77	150	194	207	207	95
90°	0	0	0	0	0	



TEST NUMBER: P276263

CATALOG NUMBER: 24CZ2-75HE-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2213.1	2213.1	2202.1	2213.1	2213.1
5°	2204.3	2204.3	2195.6	2206.5	2208.7
7.5°	2189.0	2191.2	2182.4	2195.6	2197.8
10°	2167.0	2169.2	2164.8	2178.0	2180.2
12.5°	2140.6	2142.8	2142.8	2158.2	2160.4
15°	2107.6	2109.8	2112.0	2131.8	2134.0
17.5°	2065.8	2072.4	2076.8	2101.0	2105.4
20°	2021.8	2028.4	2037.2	2063.6	2068.0
22.5°	1971.2	1980.0	1995.4	2024.0	2030.6
25°	1918.4	1927.2	1947.0	1980.0	1986.6
27.5°	1859.0	1872.2	1896.4	1931.6	1940.4
30°	1797.4	1810.6	1839.2	1876.6	1889.8
32.5°	1731.4	1749.0	1782.0	1823.8	1837.0
35°	1663.2	1683.0	1718.2	1764.4	1782.0
37.5°	1590.6	1612.6	1654.4	1705.0	1727.0
40°	1515.8	1542.2	1586.2	1645.6	1669.8
42.5°	1441.0	1465.2	1520.2	1584.0	1610.4
45°	1364.0	1392.6	1449.8	1522.4	1548.8
47.5°	1284.8	1313.4	1381.6	1458.6	1482.8
50°	1205.6	1234.2	1311.2	1392.6	1421.2
52.5°	1119.8	1157.2	1245.2	1326.6	1355.2
55°	1042.8	1078.0	1168.2	1260.6	1291.4
57.5°	954.8	996.6	1095.6	1192.4	1225.4
60°	873.4	917.4	1023.0	1122.0	1155.0
62.5°	789.8	838.2	950.4	1051.6	1089.0
65°	699.6	759.0	877.8	981.2	1018.6
67.5°	618.2	679.8	805.2	910.8	943.8
70°	525.8	600.6	728.2	833.8	871.2
72.5°	446.6	521.4	655.6	759.0	796.4
75°	363.0	444.4	578.6	682.0	715.0
77.5°	279.4	369.6	503.8	583.0	594.0
80°	200.2	294.8	418.0	464.2	479.6
82.5°	140.8	226.6	308.0	338.8	347.6
85°	77.0	149.6	193.6	206.8	206.8
87.5°	33.0	63.8	77.0	79.2	81.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)