

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: P276265

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276265  
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-5700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6722.3 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

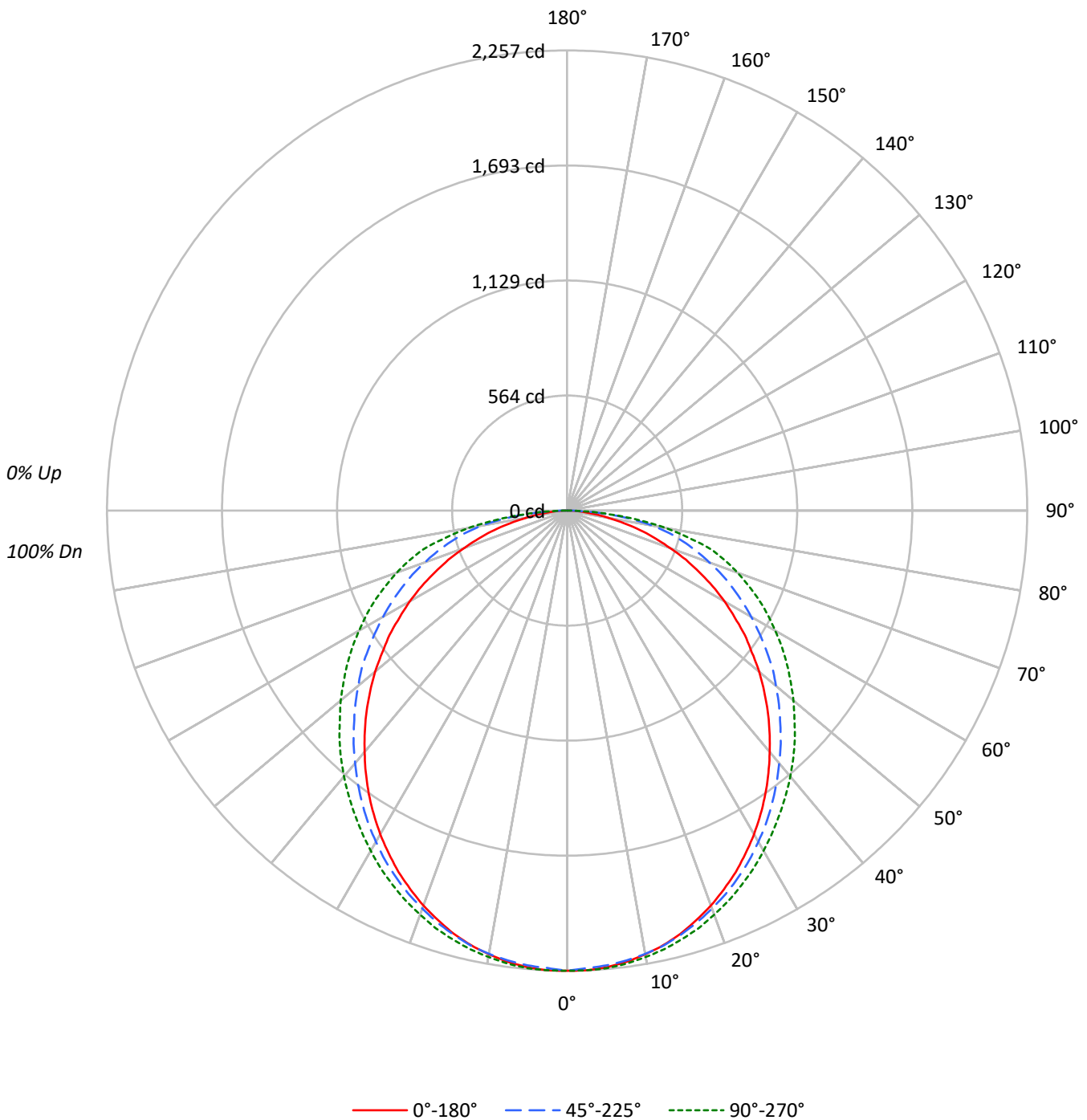
Input Watts (W): 60.171  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3037	3037	3037
5°	3036	3024	3042
10°	3019	3016	3038
15°	2994	3000	3031
20°	2952	2975	3020
25°	2904	2948	3008
30°	2848	2914	2994
35°	2786	2878	2985
40°	2715	2841	2991
45°	2647	2813	3005
50°	2573	2799	3034
55°	2495	2795	3089
60°	2397	2807	3169
65°	2271	2850	3307
70°	2109	2921	3495
75°	1925	3067	3790
80°	1582	3303	3790
85°	1212	3047	3256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.5	3.2
10°-20°	609.4	9.1
20°-30°	917.0	13.6
30°-40°	1099.0	16.3
40°-50°	1145.3	17.0
50°-60°	1065.5	15.9
60°-70°	877.6	13.1
70°-80°	597.7	8.9
80°-90°	197.3	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°	1739.9	25.9
0°-40°	2838.9	42.2
0°-60°	5049.7	75.1
0°-90°	6722.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6722.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2248	2248	2239	2250	2252	213
15°	2149	2152	2154	2174	2176	606
25°	1956	1965	1986	2019	2026	901
35°	1696	1716	1752	1799	1817	1060
45°	1391	1420	1478	1552	1579	1073
55°	1063	1099	1191	1286	1317	948
65°	713	774	895	1001	1039	708
75°	370	453	590	696	729	390
85°	78	153	197	211	211	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2257.0	2257.0	2245.8	2257.0	2257.0
5°	2248.0	2248.0	2239.0	2250.3	2252.5
7.5°	2232.3	2234.5	2225.6	2239.0	2241.3
10°	2209.9	2212.1	2207.6	2221.1	2223.3
12.5°	2182.9	2185.2	2185.2	2200.9	2203.1
15°	2149.3	2151.5	2153.8	2174.0	2176.2
17.5°	2106.7	2113.4	2117.9	2142.6	2147.0
20°	2061.8	2068.5	2077.5	2104.4	2108.9
22.5°	2010.2	2019.2	2034.9	2064.0	2070.8
25°	1956.3	1965.3	1985.5	2019.2	2025.9
27.5°	1895.8	1909.2	1933.9	1969.8	1978.8
30°	1833.0	1846.4	1875.6	1913.7	1927.2
32.5°	1765.6	1783.6	1817.3	1859.9	1873.3
35°	1696.1	1716.3	1752.2	1799.3	1817.3
37.5°	1622.1	1644.5	1687.1	1738.7	1761.2
40°	1545.8	1572.7	1617.6	1678.2	1702.8
42.5°	1469.5	1494.2	1550.3	1615.3	1642.3
45°	1391.0	1420.1	1478.5	1552.5	1579.4
47.5°	1310.2	1339.4	1408.9	1487.5	1512.1
50°	1229.4	1258.6	1337.1	1420.1	1449.3
52.5°	1142.0	1180.1	1269.8	1352.8	1382.0
55°	1063.4	1099.3	1191.3	1285.5	1316.9
57.5°	973.7	1016.3	1117.3	1216.0	1249.6
60°	890.7	935.5	1043.2	1144.2	1177.8
62.5°	805.4	854.8	969.2	1072.4	1110.5
65°	713.4	774.0	895.2	1000.6	1038.7
67.5°	630.4	693.2	821.1	928.8	962.5
70°	536.2	612.5	742.6	850.3	888.4
72.5°	455.4	531.7	668.6	774.0	812.2
75°	370.2	453.2	590.0	695.5	729.1
77.5°	284.9	376.9	513.8	594.5	605.8
80°	204.2	300.6	426.3	473.4	489.1
82.5°	143.6	231.1	314.1	345.5	354.5
85°	78.5	152.6	197.4	210.9	210.9
87.5°	33.7	65.1	78.5	80.8	83.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)