

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: P276257

Luminaire Tested: **24CZ2-70HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276257
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: 24CZ2-70HE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6330.6 lumens
Efficiency: N/A
Efficacy: 112.7 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

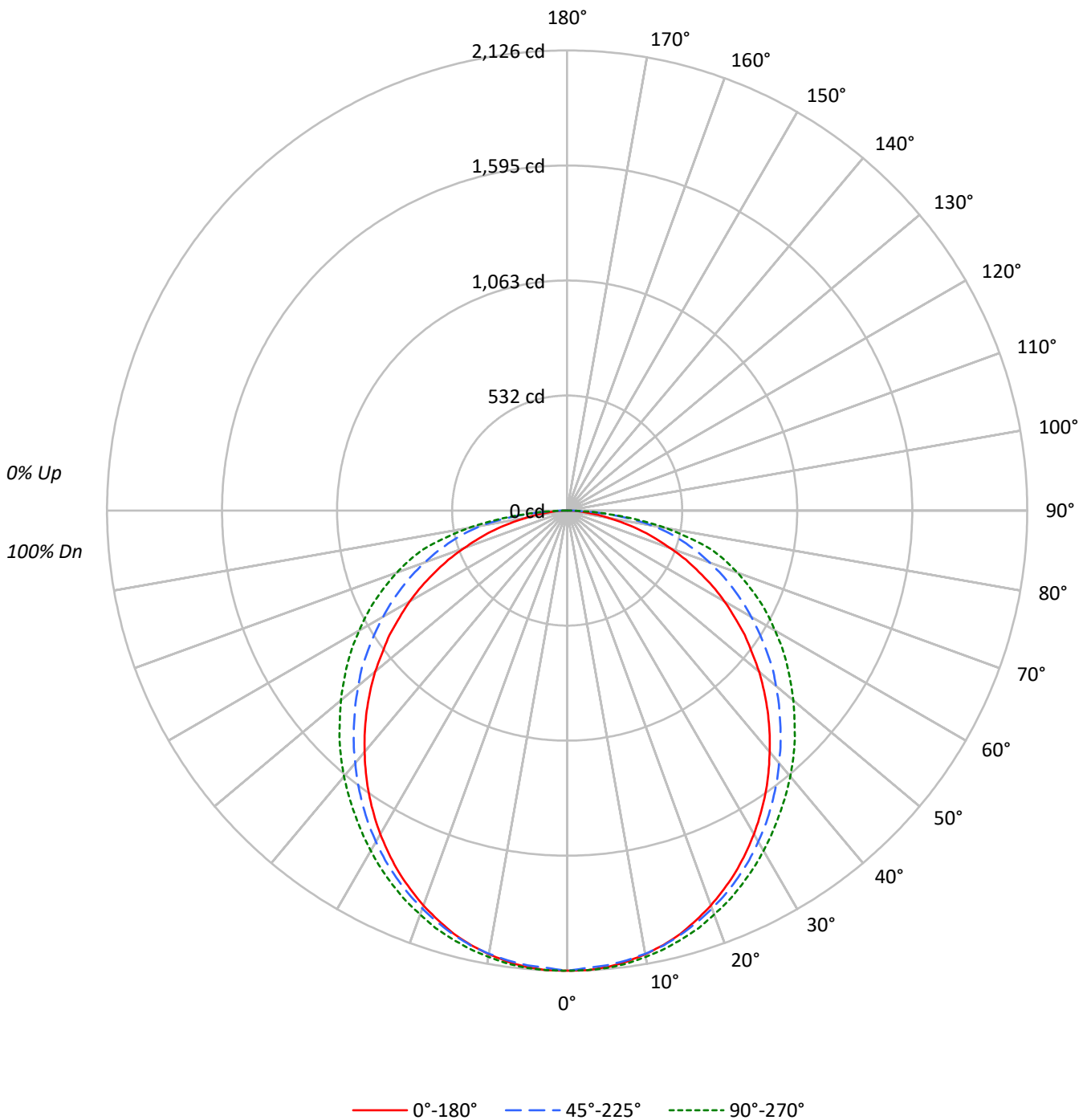
Input Watts (W): 56.172
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2860	2860	2860
5°	2859	2848	2865
10°	2843	2840	2861
15°	2819	2825	2855
20°	2780	2801	2844
25°	2735	2776	2832
30°	2682	2744	2820
35°	2624	2710	2811
40°	2557	2676	2817
45°	2492	2649	2830
50°	2424	2636	2857
55°	2349	2632	2909
60°	2257	2644	2985
65°	2139	2684	3114
70°	1987	2751	3292
75°	1812	2889	3570
80°	1490	3110	3569
85°	1141	2870	3066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	3.2
10°-20°	573.9	9.1
20°-30°	863.6	13.6
30°-40°	1035.0	16.3
40°-50°	1078.5	17.0
50°-60°	1003.4	15.9
60°-70°	826.5	13.1
70°-80°	562.9	8.9
80°-90°	185.8	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°	1638.5	25.9
0°-40°	2673.5	42.2
0°-60°	4755.5	75.1
0°-90°	6330.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6330.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2117	2117	2109	2119	2121	201
15°	2024	2026	2028	2047	2049	570
25°	1842	1851	1870	1902	1908	848
35°	1597	1616	1650	1694	1711	998
45°	1310	1337	1392	1462	1487	1010
55°	1002	1035	1122	1211	1240	893
65°	672	729	843	942	978	667
75°	349	427	556	655	687	368
85°	74	144	186	199	199	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.5	2125.5	2125.5	2125.5	2125.5
2.5°	2125.5	2125.5	2114.9	2125.5	2125.5
5°	2117.0	2117.0	2108.6	2119.1	2121.3
7.5°	2102.2	2104.4	2095.9	2108.6	2110.7
10°	2081.1	2083.2	2079.0	2091.7	2093.8
12.5°	2055.8	2057.9	2057.9	2072.7	2074.8
15°	2024.1	2026.2	2028.3	2047.3	2049.4
17.5°	1983.9	1990.3	1994.5	2017.7	2022.0
20°	1941.7	1948.0	1956.5	1981.8	1986.0
22.5°	1893.1	1901.5	1916.3	1943.8	1950.1
25°	1842.4	1850.8	1869.8	1901.5	1907.9
27.5°	1785.3	1798.0	1821.2	1855.0	1863.5
30°	1726.2	1738.8	1766.3	1802.2	1814.9
32.5°	1662.8	1679.7	1711.4	1751.5	1764.2
35°	1597.3	1616.3	1650.1	1694.5	1711.4
37.5°	1527.6	1548.7	1588.8	1637.4	1658.6
40°	1455.7	1481.1	1523.3	1580.4	1603.6
42.5°	1383.9	1407.1	1460.0	1521.2	1546.6
45°	1309.9	1337.4	1392.3	1462.1	1487.4
47.5°	1233.9	1261.3	1326.8	1400.8	1424.0
50°	1157.8	1185.3	1259.2	1337.4	1364.9
52.5°	1075.4	1111.3	1195.9	1274.0	1301.5
55°	1001.5	1035.3	1121.9	1210.6	1240.2
57.5°	917.0	957.1	1052.2	1145.1	1176.8
60°	838.8	881.0	982.5	1077.5	1109.2
62.5°	758.5	805.0	912.7	1009.9	1045.8
65°	671.9	728.9	843.0	942.3	978.2
67.5°	593.7	652.9	773.3	874.7	906.4
70°	505.0	576.8	699.3	800.8	836.7
72.5°	428.9	500.7	629.6	728.9	764.8
75°	348.6	426.8	555.7	655.0	686.7
77.5°	268.3	355.0	483.8	559.9	570.5
80°	192.3	283.1	401.4	445.8	460.6
82.5°	135.2	217.6	295.8	325.4	333.8
85°	73.9	143.7	185.9	198.6	198.6
87.5°	31.7	61.3	73.9	76.1	78.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)