

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: P276515

Luminaire Tested: **24CZ2-55HE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276515
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: 24CZ2-55HE-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: 5766.2 lumens
Efficiency: N/A
Efficacy: 137.8 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

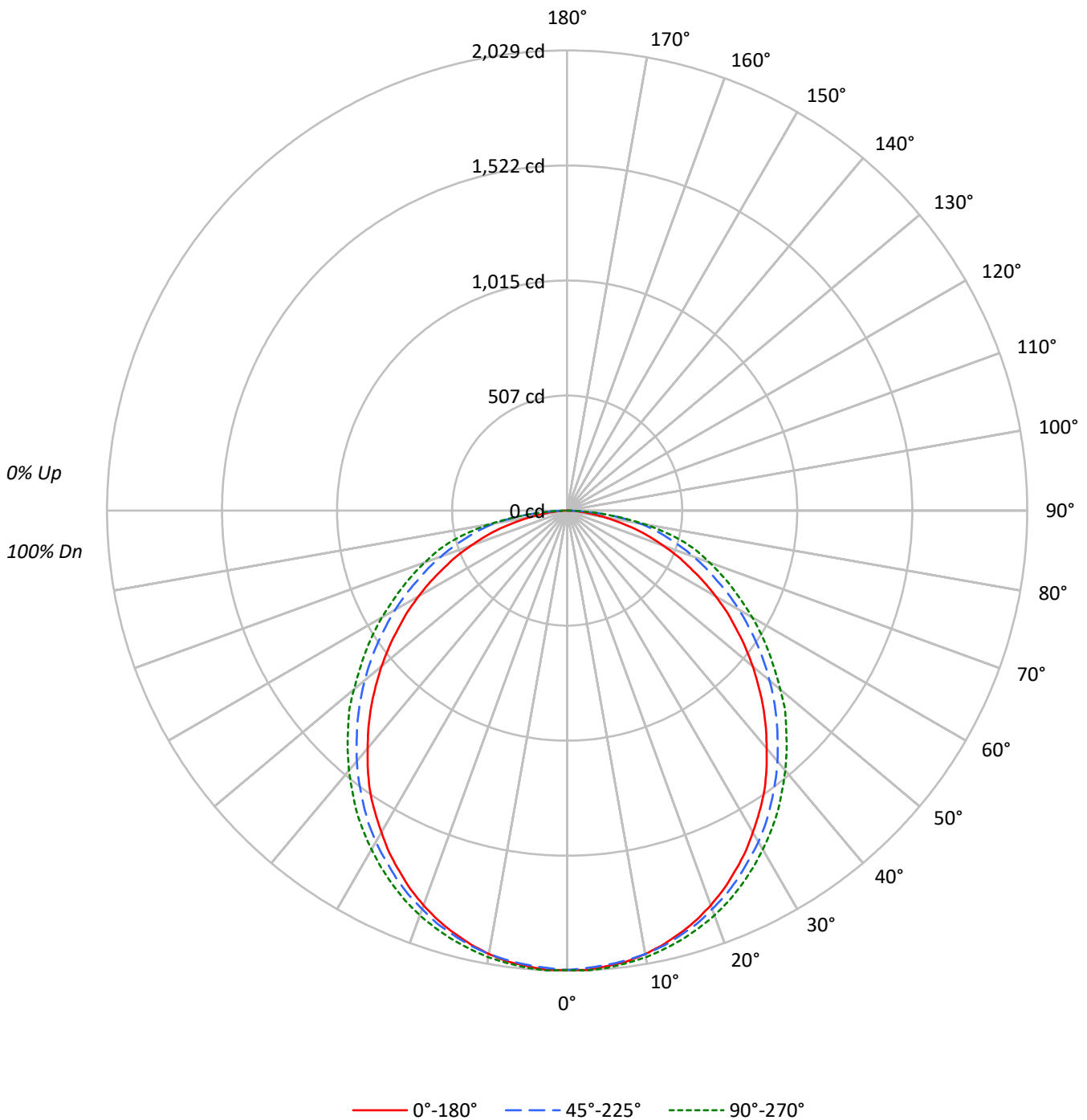
Input Watts (W): 41.85
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2726	2726	2726
5°	2724	2716	2734
10°	2713	2713	2732
15°	2686	2699	2727
20°	2651	2678	2719
25°	2602	2651	2703
30°	2544	2621	2680
35°	2488	2578	2659
40°	2403	2535	2628
45°	2324	2485	2600
50°	2235	2438	2569
55°	2135	2393	2544
60°	2035	2356	2538
65°	1907	2315	2554
70°	1765	2327	2623
75°	1580	2371	2771
80°	1277	2512	2710
85°	962	2206	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	3.3
10°-20°	548.0	9.5
20°-30°	823.7	14.3
30°-40°	981.2	17.0
40°-50°	1004.2	17.4
50°-60°	904.1	15.7
60°-70°	710.0	12.3
70°-80°	460.8	8.0
80°-90°	142.5	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°	1563.4	27.1
0°-40°	2544.6	44.1
0°-60°	4452.9	77.2
0°-90°	5766.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5766.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2016	2020	2011	2022	2024	192
15°	1929	1934	1938	1954	1958	544
25°	1753	1767	1786	1815	1821	807
35°	1515	1533	1570	1608	1619	945
45°	1222	1251	1306	1355	1366	942
55°	910	951	1020	1073	1084	816
65°	599	645	727	788	802	596
75°	304	363	456	518	533	322
85°	62	115	143	139	139	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.7	2025.7	2025.7	2025.7	2025.7
2.5°	2027.5	2027.5	2018.4	2027.5	2029.4
5°	2016.5	2020.2	2011.0	2022.0	2023.9
7.5°	2005.5	2005.5	2000.0	2011.0	2012.9
10°	1985.4	1987.2	1985.4	1998.2	2000.0
12.5°	1959.8	1963.4	1965.2	1978.1	1979.9
15°	1928.6	1934.1	1937.8	1954.3	1957.9
17.5°	1893.8	1899.3	1908.5	1926.8	1930.4
20°	1851.7	1859.0	1870.0	1893.8	1899.3
22.5°	1805.9	1813.2	1831.5	1853.5	1862.7
25°	1752.8	1767.4	1785.8	1815.1	1820.6
27.5°	1699.7	1712.5	1736.3	1767.4	1774.8
30°	1637.4	1657.5	1686.9	1718.0	1725.3
32.5°	1577.0	1597.1	1631.9	1664.9	1674.0
35°	1514.7	1533.0	1569.6	1608.1	1619.1
37.5°	1443.3	1467.1	1507.4	1545.8	1556.8
40°	1368.2	1397.5	1443.3	1483.6	1496.4
42.5°	1296.7	1327.9	1373.7	1417.6	1432.3
45°	1221.6	1250.9	1305.9	1355.3	1366.3
47.5°	1144.7	1177.7	1236.3	1285.7	1304.1
50°	1067.8	1102.6	1164.9	1216.1	1227.1
52.5°	990.9	1027.5	1093.4	1148.4	1153.9
55°	910.3	950.6	1020.2	1073.3	1084.3
57.5°	837.0	871.8	946.9	1001.9	1014.7
60°	756.4	794.9	875.5	926.8	943.2
62.5°	679.5	719.8	804.0	855.3	870.0
65°	598.9	644.7	727.1	787.6	802.2
67.5°	529.3	573.3	661.2	719.8	734.5
70°	448.7	498.2	591.6	652.0	666.7
72.5°	379.1	430.4	523.8	582.4	604.4
75°	304.0	362.6	456.1	518.3	533.0
77.5°	230.8	298.5	393.8	441.4	441.4
80°	164.8	236.3	324.2	346.2	349.8
82.5°	108.1	177.7	239.9	238.1	238.1
85°	62.3	115.4	142.9	139.2	139.2
87.5°	23.8	47.6	51.3	51.3	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)