

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: P276118

Luminaire Tested: **24CZ2-70HE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276118
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6776.2 lumens
Efficiency: N/A
Efficacy: 123.9 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

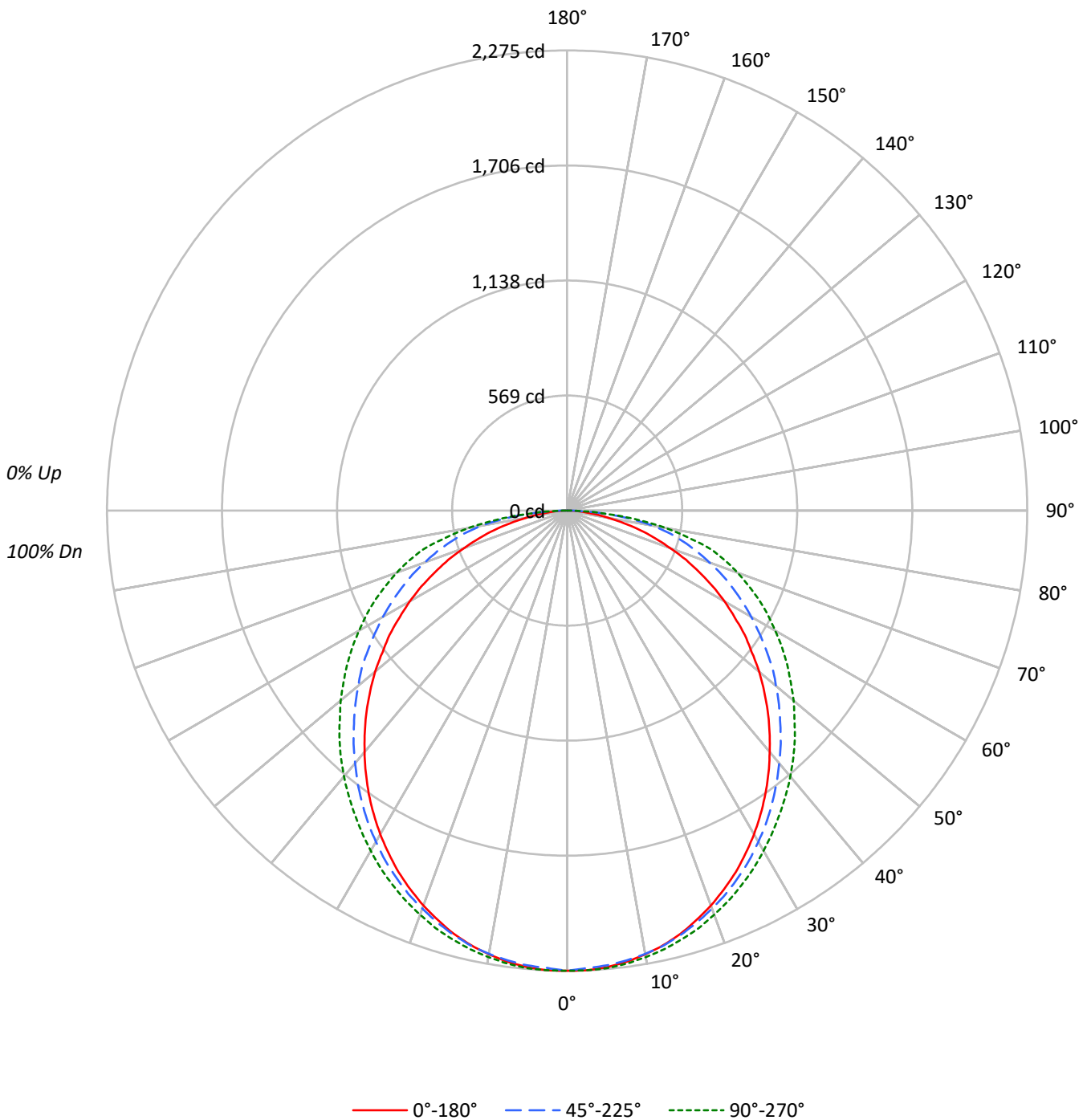
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3061	3061	3061
5°	3061	3048	3067
10°	3043	3040	3062
15°	3018	3024	3056
20°	2976	2999	3044
25°	2928	2971	3032
30°	2871	2937	3018
35°	2808	2901	3009
40°	2737	2864	3015
45°	2668	2836	3029
50°	2594	2821	3058
55°	2515	2817	3114
60°	2416	2830	3195
65°	2290	2873	3334
70°	2126	2945	3523
75°	1940	3092	3821
80°	1595	3329	3820
85°	1223	3072	3282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.2
10°-20°	614.3	9.1
20°-30°	924.4	13.6
30°-40°	1107.8	16.3
40°-50°	1154.4	17.0
50°-60°	1074.1	15.9
60°-70°	884.6	13.1
70°-80°	602.5	8.9
80°-90°	198.9	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°	1753.9	25.9
0°-40°	2861.7	42.2
0°-60°	5090.2	75.1
0°-90°	6776.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6776.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2266	2266	2257	2268	2271	215
15°	2166	2169	2171	2191	2194	610
25°	1972	1981	2001	2035	2042	908
35°	1710	1730	1766	1814	1832	1069
45°	1402	1432	1490	1565	1592	1081
55°	1072	1108	1201	1296	1328	956
65°	719	780	902	1009	1047	714
75°	373	457	595	701	735	393
85°	79	154	199	213	213	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2275.1	2275.1	2263.8	2275.1	2275.1
5°	2266.0	2266.0	2257.0	2268.3	2270.6
7.5°	2250.2	2252.5	2243.4	2257.0	2259.3
10°	2227.6	2229.9	2225.3	2238.9	2241.2
12.5°	2200.5	2202.7	2202.7	2218.5	2220.8
15°	2166.5	2168.8	2171.1	2191.4	2193.7
17.5°	2123.6	2130.3	2134.9	2159.7	2164.3
20°	2078.3	2085.1	2094.2	2121.3	2125.8
22.5°	2026.3	2035.4	2051.2	2080.6	2087.4
25°	1972.0	1981.1	2001.4	2035.4	2042.1
27.5°	1911.0	1924.5	1949.4	1985.6	1994.7
30°	1847.7	1861.2	1890.6	1929.1	1942.6
32.5°	1779.8	1797.9	1831.8	1874.8	1888.4
35°	1709.7	1730.1	1766.2	1813.7	1831.8
37.5°	1635.1	1657.7	1700.7	1752.7	1775.3
40°	1558.2	1585.3	1630.6	1691.6	1716.5
42.5°	1481.3	1506.2	1562.7	1628.3	1655.4
45°	1402.1	1431.5	1490.3	1565.0	1592.1
47.5°	1320.7	1350.1	1420.2	1499.4	1524.3
50°	1239.3	1268.7	1347.9	1431.5	1460.9
52.5°	1151.1	1189.6	1280.0	1363.7	1393.1
55°	1072.0	1108.1	1200.9	1295.8	1327.5
57.5°	981.5	1024.5	1126.2	1225.7	1259.7
60°	897.8	943.1	1051.6	1153.4	1187.3
62.5°	811.9	861.6	977.0	1081.0	1119.5
65°	719.2	780.2	902.3	1008.6	1047.1
67.5°	635.5	698.8	827.7	936.3	970.2
70°	540.5	617.4	748.6	857.1	895.6
72.5°	459.1	536.0	673.9	780.2	818.7
75°	373.2	456.8	594.8	701.1	735.0
77.5°	287.2	379.9	517.9	599.3	610.6
80°	205.8	303.0	429.7	477.2	493.0
82.5°	144.7	232.9	316.6	348.3	357.3
85°	79.2	153.8	199.0	212.6	212.6
87.5°	33.9	65.6	79.2	81.4	83.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)