

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: P276255

Luminaire Tested: **24CZ2-70HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276255
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6260.6 lumens
Efficiency: N/A
Efficacy: 113.5 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

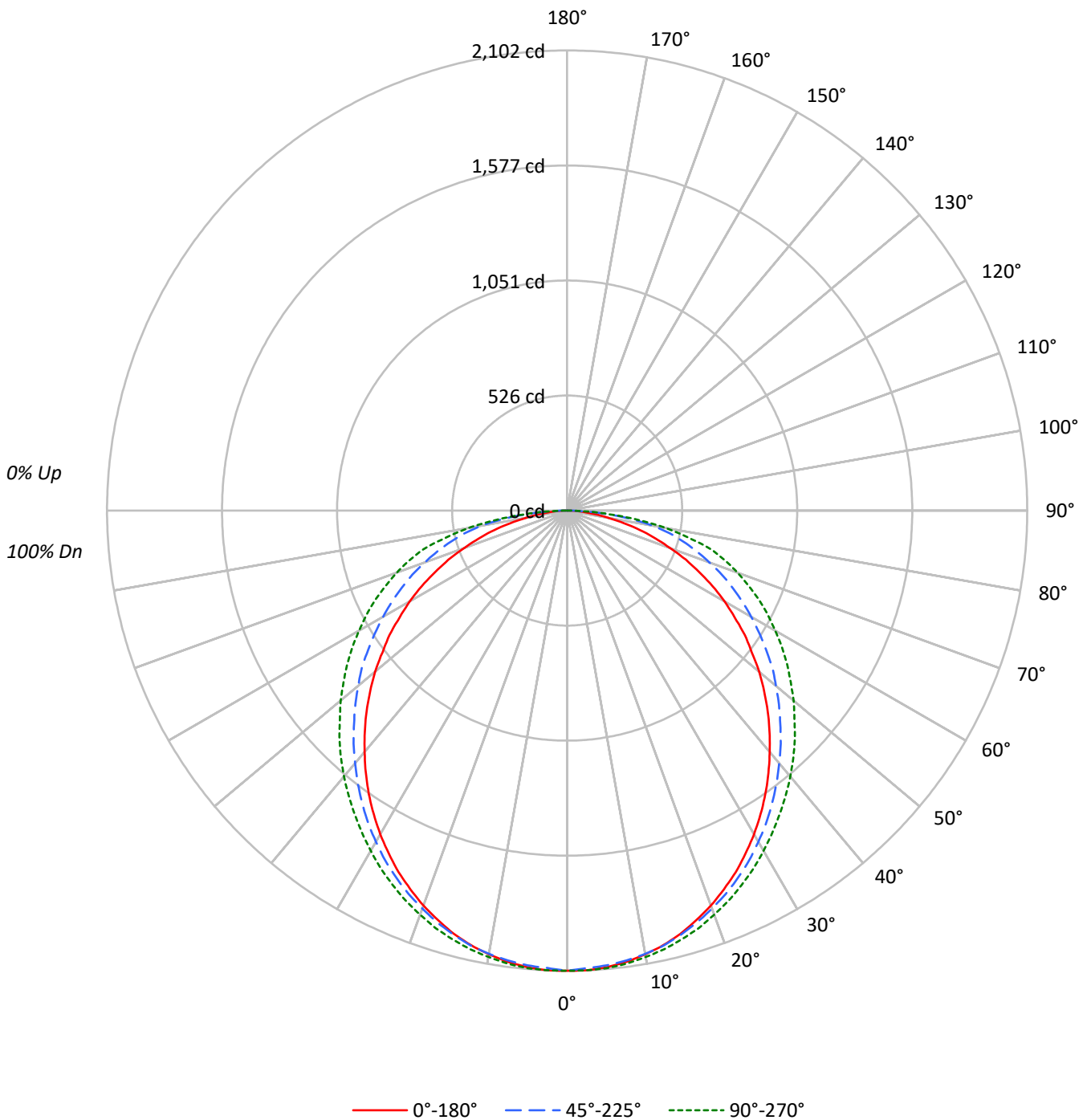
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2828	2828	2828
5°	2828	2816	2833
10°	2812	2809	2829
15°	2788	2794	2823
20°	2749	2770	2812
25°	2705	2745	2801
30°	2652	2714	2788
35°	2595	2680	2780
40°	2529	2646	2785
45°	2465	2620	2799
50°	2397	2607	2825
55°	2323	2603	2877
60°	2232	2615	2952
65°	2115	2654	3080
70°	1965	2721	3255
75°	1792	2857	3530
80°	1473	3076	3529
85°	1129	2839	3032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	3.2
10°-20°	567.5	9.1
20°-30°	854.1	13.6
30°-40°	1023.5	16.3
40°-50°	1066.6	17.0
50°-60°	992.3	15.9
60°-70°	817.3	13.1
70°-80°	556.6	8.9
80°-90°	183.8	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°	1620.4	25.9
0°-40°	2643.9	42.2
0°-60°	4702.9	75.1
0°-90°	6260.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6260.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2094	2094	2085	2096	2098	199
15°	2002	2004	2006	2025	2027	564
25°	1822	1830	1849	1880	1887	839
35°	1580	1598	1632	1676	1692	987
45°	1296	1323	1377	1446	1471	999
55°	990	1024	1110	1197	1226	883
65°	664	721	834	932	967	660
75°	345	422	550	648	679	364
85°	73	142	184	196	196	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2102.0	2102.0	2091.5	2102.0	2102.0
5°	2093.6	2093.6	2085.3	2095.7	2097.8
7.5°	2079.0	2081.1	2072.7	2085.3	2087.4
10°	2058.1	2060.2	2056.0	2068.6	2070.6
12.5°	2033.0	2035.1	2035.1	2049.7	2051.8
15°	2001.7	2003.8	2005.9	2024.7	2026.8
17.5°	1962.0	1968.3	1972.4	1995.4	1999.6
20°	1920.2	1926.5	1934.8	1959.9	1964.1
22.5°	1872.1	1880.5	1895.1	1922.3	1928.6
25°	1822.0	1830.4	1849.2	1880.5	1886.8
27.5°	1765.6	1778.1	1801.1	1834.5	1842.9
30°	1707.1	1719.6	1746.8	1782.3	1794.8
32.5°	1644.4	1661.1	1692.5	1732.2	1744.7
35°	1579.6	1598.4	1631.9	1675.7	1692.5
37.5°	1510.7	1531.6	1571.3	1619.3	1640.2
40°	1439.6	1464.7	1506.5	1562.9	1585.9
42.5°	1368.6	1391.6	1443.8	1504.4	1529.5
45°	1295.5	1322.6	1376.9	1445.9	1471.0
47.5°	1220.2	1247.4	1312.2	1385.3	1408.3
50°	1145.0	1172.2	1245.3	1322.6	1349.8
52.5°	1063.5	1099.0	1182.6	1259.9	1287.1
55°	990.4	1023.8	1109.5	1197.3	1226.5
57.5°	906.8	946.5	1040.5	1132.5	1163.8
60°	829.5	871.3	971.6	1065.6	1097.0
62.5°	750.1	796.1	902.6	998.8	1034.3
65°	664.4	720.9	833.7	931.9	967.4
67.5°	587.1	645.6	764.7	865.0	896.4
70°	499.4	570.4	691.6	791.9	827.4
72.5°	424.2	495.2	622.7	720.9	756.4
75°	344.8	422.1	549.5	647.7	679.1
77.5°	265.4	351.0	478.5	553.7	564.2
80°	190.1	280.0	397.0	440.9	455.5
82.5°	133.7	215.2	292.5	321.8	330.1
85°	73.1	142.1	183.9	196.4	196.4
87.5°	31.3	60.6	73.1	75.2	77.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)