

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: P275936

Luminaire Tested: **24CZ2-70HE-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275936
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-L83050-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7070.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

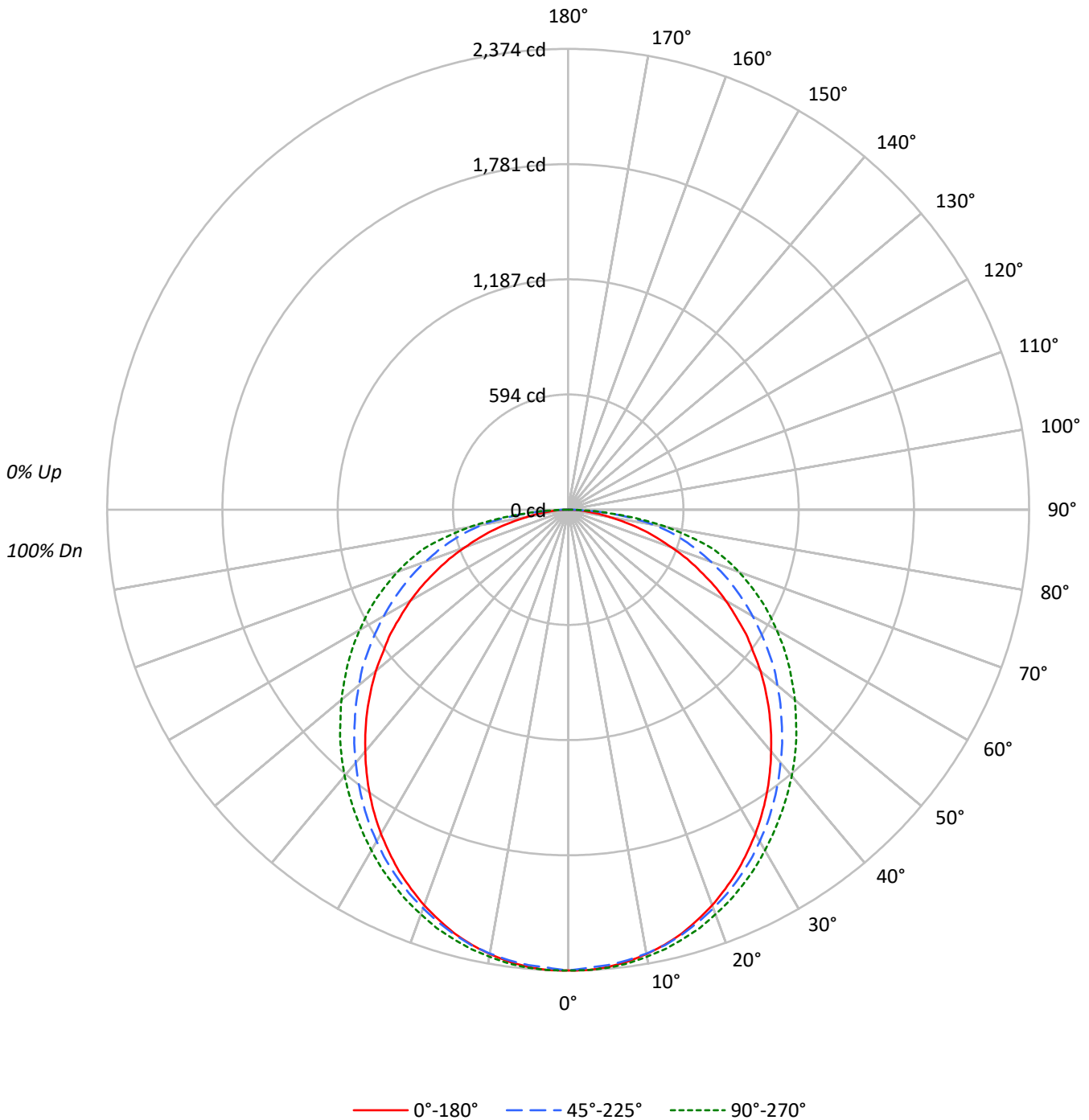
Input Watts (W): 56.265
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3194	3194	3194
5°	3193	3181	3200
10°	3175	3172	3195
15°	3149	3155	3188
20°	3105	3129	3176
25°	3055	3100	3163
30°	2995	3065	3149
35°	2930	3027	3139
40°	2855	2988	3146
45°	2784	2959	3161
50°	2707	2944	3191
55°	2624	2939	3249
60°	2521	2953	3334
65°	2389	2997	3478
70°	2218	3072	3676
75°	2024	3226	3987
80°	1664	3474	3986
85°	1275	3205	3424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	3.2
10°-20°	640.9	9.1
20°-30°	964.5	13.6
30°-40°	1155.8	16.3
40°-50°	1204.5	17.0
50°-60°	1120.6	15.9
60°-70°	923.0	13.1
70°-80°	628.6	8.9
80°-90°	207.5	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°	1829.9	25.9
0°-40°	2985.7	42.2
0°-60°	5310.9	75.1
0°-90°	7070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2364	2364	2355	2367	2369	224
15°	2260	2263	2265	2286	2289	637
25°	2058	2067	2088	2124	2131	947
35°	1784	1805	1843	1892	1911	1115
45°	1463	1494	1555	1633	1661	1128
55°	1118	1156	1253	1352	1385	997
65°	750	814	942	1052	1092	745
75°	389	477	621	732	767	411
85°	83	160	208	222	222	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.7	2373.7	2373.7	2373.7	2373.7
2.5°	2373.7	2373.7	2361.9	2373.7	2373.7
5°	2364.3	2364.3	2354.9	2366.6	2369.0
7.5°	2347.8	2350.1	2340.7	2354.9	2357.2
10°	2324.2	2326.5	2321.8	2336.0	2338.3
12.5°	2295.9	2298.2	2298.2	2314.7	2317.1
15°	2260.5	2262.8	2265.2	2286.4	2288.8
17.5°	2215.6	2222.7	2227.4	2253.4	2258.1
20°	2168.4	2175.5	2185.0	2213.3	2218.0
22.5°	2114.2	2123.6	2140.1	2170.8	2177.9
25°	2057.5	2067.0	2088.2	2123.6	2130.7
27.5°	1993.8	2008.0	2033.9	2071.7	2081.1
30°	1927.8	1941.9	1972.6	2012.7	2026.9
32.5°	1857.0	1875.9	1911.3	1956.1	1970.2
35°	1783.8	1805.1	1842.8	1892.4	1911.3
37.5°	1706.0	1729.6	1774.4	1828.7	1852.3
40°	1625.7	1654.1	1701.3	1765.0	1790.9
42.5°	1545.5	1571.5	1630.5	1698.9	1727.2
45°	1462.9	1493.6	1555.0	1632.8	1661.1
47.5°	1378.0	1408.7	1481.8	1564.4	1590.4
50°	1293.0	1323.7	1406.3	1493.6	1524.3
52.5°	1201.0	1241.1	1335.5	1422.8	1453.5
55°	1118.4	1156.2	1252.9	1352.0	1385.1
57.5°	1024.1	1068.9	1175.1	1278.9	1314.3
60°	936.7	983.9	1097.2	1203.4	1238.8
62.5°	847.1	899.0	1019.3	1127.9	1168.0
65°	750.3	814.1	941.5	1052.4	1092.5
67.5°	663.0	729.1	863.6	976.9	1012.3
70°	563.9	644.2	781.0	894.3	934.4
72.5°	479.0	559.2	703.2	814.1	854.2
75°	389.3	476.6	620.6	731.5	766.9
77.5°	299.7	396.4	540.3	625.3	637.1
80°	214.7	316.2	448.3	497.9	514.4
82.5°	151.0	243.0	330.3	363.4	372.8
85°	82.6	160.5	207.6	221.8	221.8
87.5°	35.4	68.4	82.6	84.9	87.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)