

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: P276120

Luminaire Tested: **24CZ2-70HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276120
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

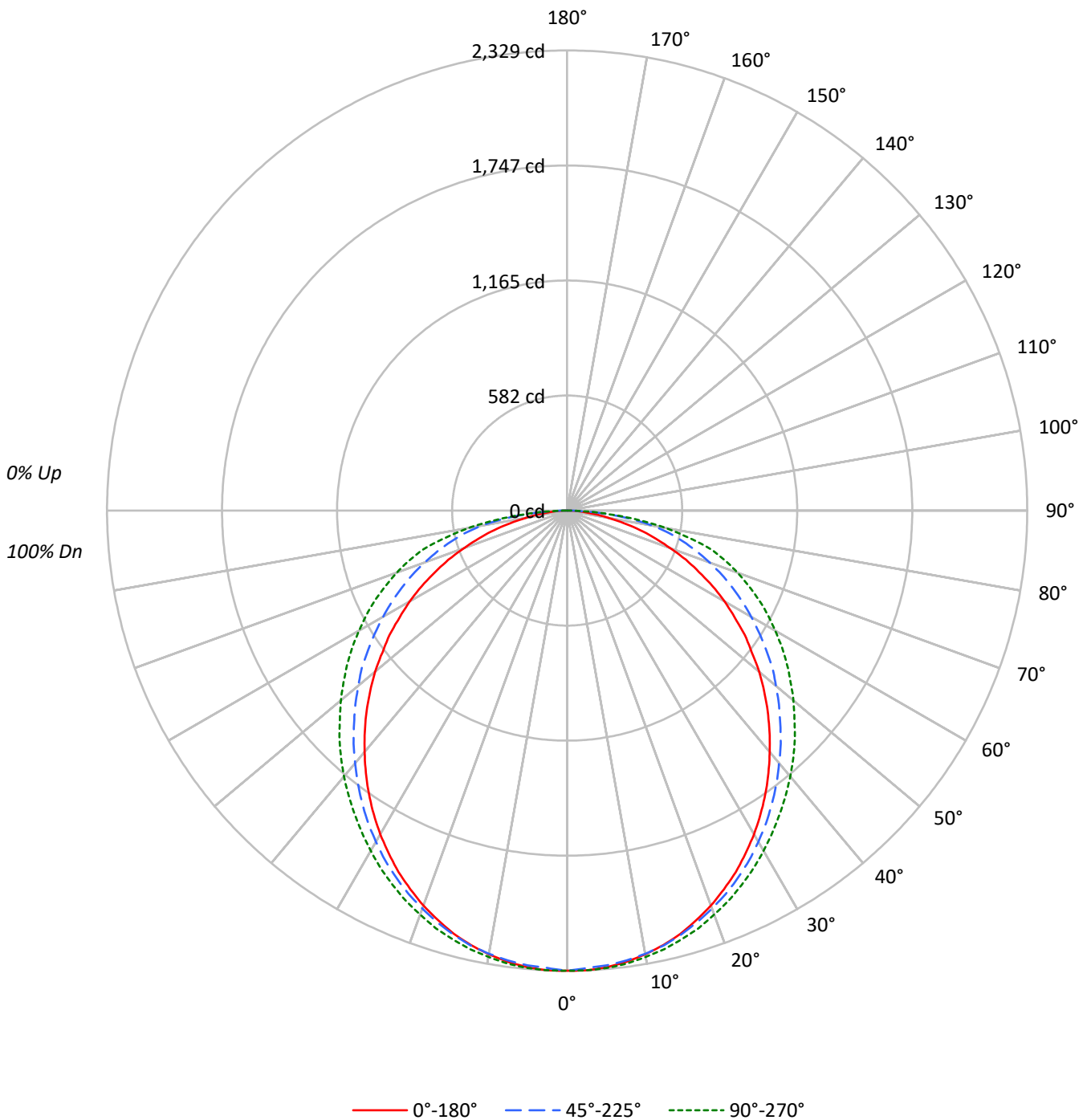
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3133	3133	3133
5°	3133	3120	3139
10°	3115	3112	3134
15°	3089	3096	3128
20°	3046	3069	3116
25°	2997	3041	3103
30°	2938	3007	3089
35°	2874	2970	3080
40°	2801	2931	3086
45°	2731	2903	3101
50°	2655	2888	3130
55°	2574	2883	3187
60°	2473	2897	3270
65°	2344	2940	3412
70°	2177	3014	3606
75°	1986	3165	3911
80°	1633	3408	3910
85°	1250	3145	3359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	3.2
10°-20°	628.8	9.1
20°-30°	946.2	13.6
30°-40°	1133.9	16.3
40°-50°	1181.7	17.0
50°-60°	1099.4	15.9
60°-70°	905.5	13.1
70°-80°	616.7	8.9
80°-90°	203.6	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°	1795.2	25.9
0°-40°	2929.2	42.2
0°-60°	5210.3	75.1
0°-90°	6936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2320	2320	2310	2322	2324	220
15°	2218	2220	2222	2243	2245	625
25°	2019	2028	2049	2083	2090	929
35°	1750	1771	1808	1856	1875	1094
45°	1435	1465	1526	1602	1630	1107
55°	1097	1134	1229	1326	1359	978
65°	736	799	924	1032	1072	731
75°	382	468	609	718	752	403
85°	81	157	204	218	218	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2328.8	2328.8	2328.8	2328.8	2328.8
2.5°	2328.8	2328.8	2317.2	2328.8	2328.8
5°	2319.5	2319.5	2310.2	2321.8	2324.1
7.5°	2303.3	2305.6	2296.4	2310.2	2312.6
10°	2280.1	2282.5	2277.8	2291.7	2294.0
12.5°	2252.4	2254.7	2254.7	2270.9	2273.2
15°	2217.6	2220.0	2222.3	2243.1	2245.4
17.5°	2173.7	2180.6	2185.2	2210.7	2215.3
20°	2127.4	2134.3	2143.6	2171.4	2176.0
22.5°	2074.1	2083.4	2099.6	2129.7	2136.6
25°	2018.6	2027.8	2048.7	2083.4	2090.3
27.5°	1956.1	1970.0	1995.4	2032.5	2041.7
30°	1891.3	1905.1	1935.2	1974.6	1988.5
32.5°	1821.8	1840.3	1875.0	1919.0	1932.9
35°	1750.0	1770.9	1807.9	1856.5	1875.0
37.5°	1673.7	1696.8	1740.8	1794.0	1817.2
40°	1594.9	1622.7	1669.0	1731.5	1757.0
42.5°	1516.2	1541.7	1599.6	1666.7	1694.5
45°	1435.2	1465.3	1525.5	1601.9	1629.7
47.5°	1351.9	1382.0	1453.7	1534.8	1560.2
50°	1268.6	1298.6	1379.7	1465.3	1495.4
52.5°	1178.3	1217.6	1310.2	1395.9	1426.0
55°	1097.2	1134.3	1229.2	1326.4	1358.8
57.5°	1004.7	1048.6	1152.8	1254.7	1289.4
60°	919.0	965.3	1076.4	1180.6	1215.3
62.5°	831.0	882.0	1000.0	1106.5	1145.9
65°	736.1	798.6	923.6	1032.4	1071.8
67.5°	650.5	715.3	847.2	958.4	993.1
70°	553.3	632.0	766.2	877.3	916.7
72.5°	469.9	548.6	689.8	798.6	838.0
75°	382.0	467.6	608.8	717.6	752.3
77.5°	294.0	388.9	530.1	613.4	625.0
80°	210.7	310.2	439.8	488.4	504.6
82.5°	148.2	238.4	324.1	356.5	365.7
85°	81.0	157.4	203.7	217.6	217.6
87.5°	34.7	67.1	81.0	83.3	85.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)