

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: P275919

Luminaire Tested: **24CZ2-55HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275919
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: 24CZ2-55HE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5513.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

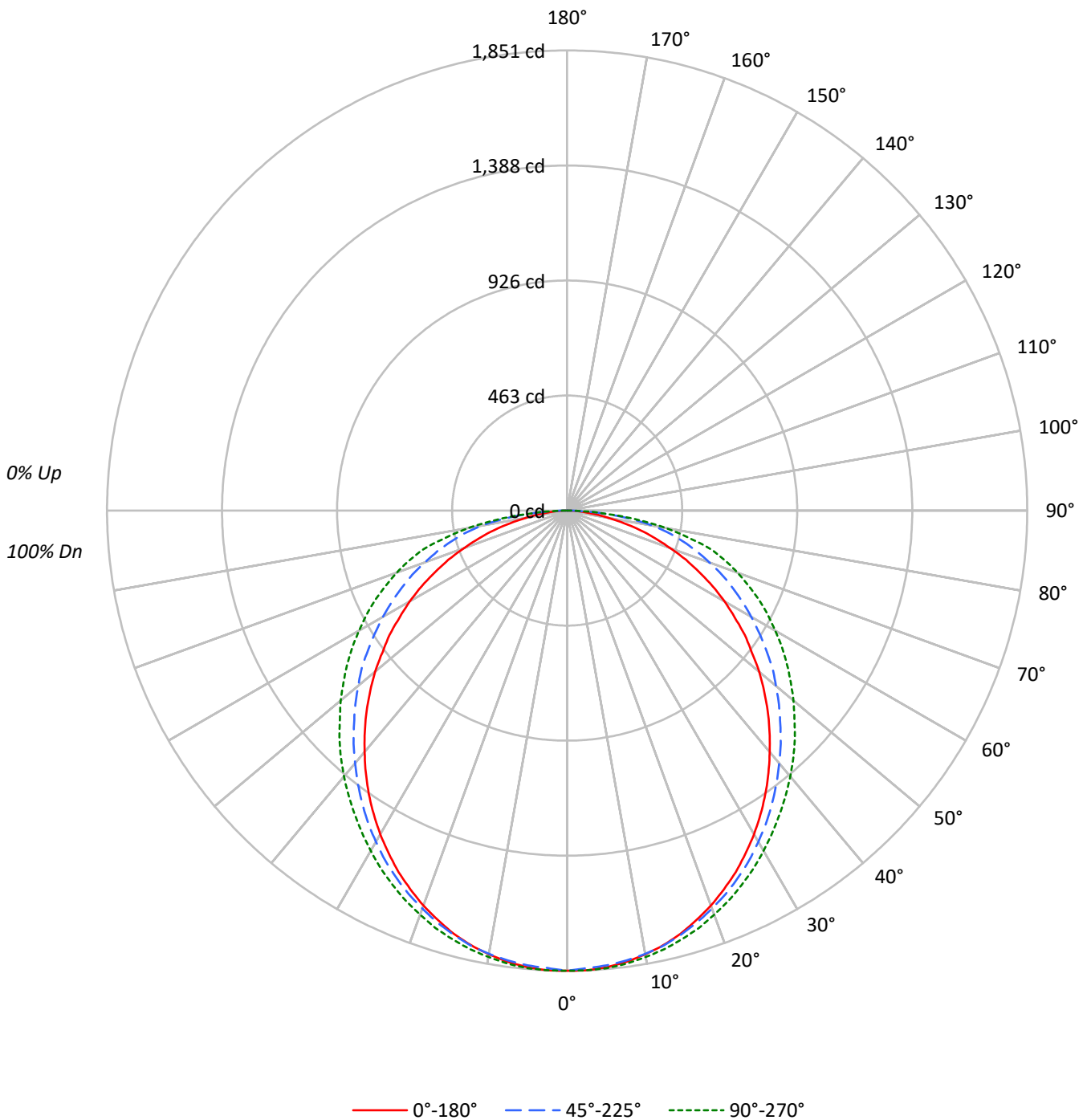
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2491	2491	2491
5°	2490	2480	2495
10°	2476	2474	2491
15°	2455	2460	2486
20°	2421	2440	2476
25°	2382	2417	2467
30°	2335	2390	2456
35°	2285	2360	2448
40°	2227	2330	2453
45°	2171	2307	2465
50°	2111	2295	2488
55°	2046	2292	2533
60°	1966	2302	2599
65°	1863	2337	2712
70°	1730	2396	2866
75°	1578	2516	3109
80°	1297	2709	3108
85°	994	2499	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.2
10°-20°	499.8	9.1
20°-30°	752.1	13.6
30°-40°	901.3	16.3
40°-50°	939.2	17.0
50°-60°	873.9	15.9
60°-70°	719.7	13.1
70°-80°	490.2	8.9
80°-90°	161.8	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°	1426.9	25.9
0°-40°	2328.2	42.2
0°-60°	4141.3	75.1
0°-90°	5513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1844	1844	1836	1846	1847	175
15°	1763	1764	1766	1783	1785	497
25°	1604	1612	1628	1656	1662	739
35°	1391	1408	1437	1476	1490	869
45°	1141	1165	1212	1273	1295	880
55°	872	902	977	1054	1080	777
65°	585	635	734	821	852	581
75°	304	372	484	570	598	320
85°	64	125	162	173	173	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1851.0	1851.0	1841.8	1851.0	1851.0
5°	1843.6	1843.6	1836.3	1845.5	1847.3
7.5°	1830.7	1832.6	1825.2	1836.3	1838.1
10°	1812.3	1814.2	1810.5	1821.5	1823.4
12.5°	1790.3	1792.1	1792.1	1805.0	1806.8
15°	1762.7	1764.5	1766.3	1782.9	1784.7
17.5°	1727.7	1733.2	1736.9	1757.1	1760.8
20°	1690.9	1696.4	1703.8	1725.9	1729.5
22.5°	1648.6	1655.9	1668.8	1692.7	1698.3
25°	1604.4	1611.8	1628.3	1655.9	1661.5
27.5°	1554.7	1565.8	1586.0	1615.5	1622.8
30°	1503.2	1514.3	1538.2	1569.5	1580.5
32.5°	1448.0	1462.7	1490.3	1525.3	1536.3
35°	1391.0	1407.5	1437.0	1475.6	1490.3
37.5°	1330.3	1348.7	1383.6	1425.9	1444.3
40°	1267.7	1289.8	1326.6	1376.3	1396.5
42.5°	1205.2	1225.4	1271.4	1324.8	1346.8
45°	1140.8	1164.7	1212.5	1273.2	1295.3
47.5°	1074.5	1098.4	1155.5	1219.9	1240.1
50°	1008.3	1032.2	1096.6	1164.7	1188.6
52.5°	936.5	967.8	1041.4	1109.5	1133.4
55°	872.1	901.6	977.0	1054.3	1080.0
57.5°	798.5	833.5	916.3	997.2	1024.8
60°	730.5	767.3	855.6	938.4	966.0
62.5°	660.5	701.0	794.9	879.5	910.8
65°	585.1	634.8	734.1	820.6	851.9
67.5°	517.0	568.5	673.4	761.7	789.3
70°	439.7	502.3	609.0	697.3	728.6
72.5°	373.5	436.1	548.3	634.8	666.1
75°	303.6	371.7	483.9	570.4	598.0
77.5°	233.7	309.1	421.3	487.6	496.8
80°	167.4	246.6	349.6	388.2	401.1
82.5°	117.8	189.5	257.6	283.3	290.7
85°	64.4	125.1	161.9	173.0	173.0
87.5°	27.6	53.4	64.4	66.2	68.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)