

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: P275992

Luminaire Tested: **24CZ2-55HE-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275992
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-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.7 lumens
Efficiency: N/A
Efficacy: 99.6 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

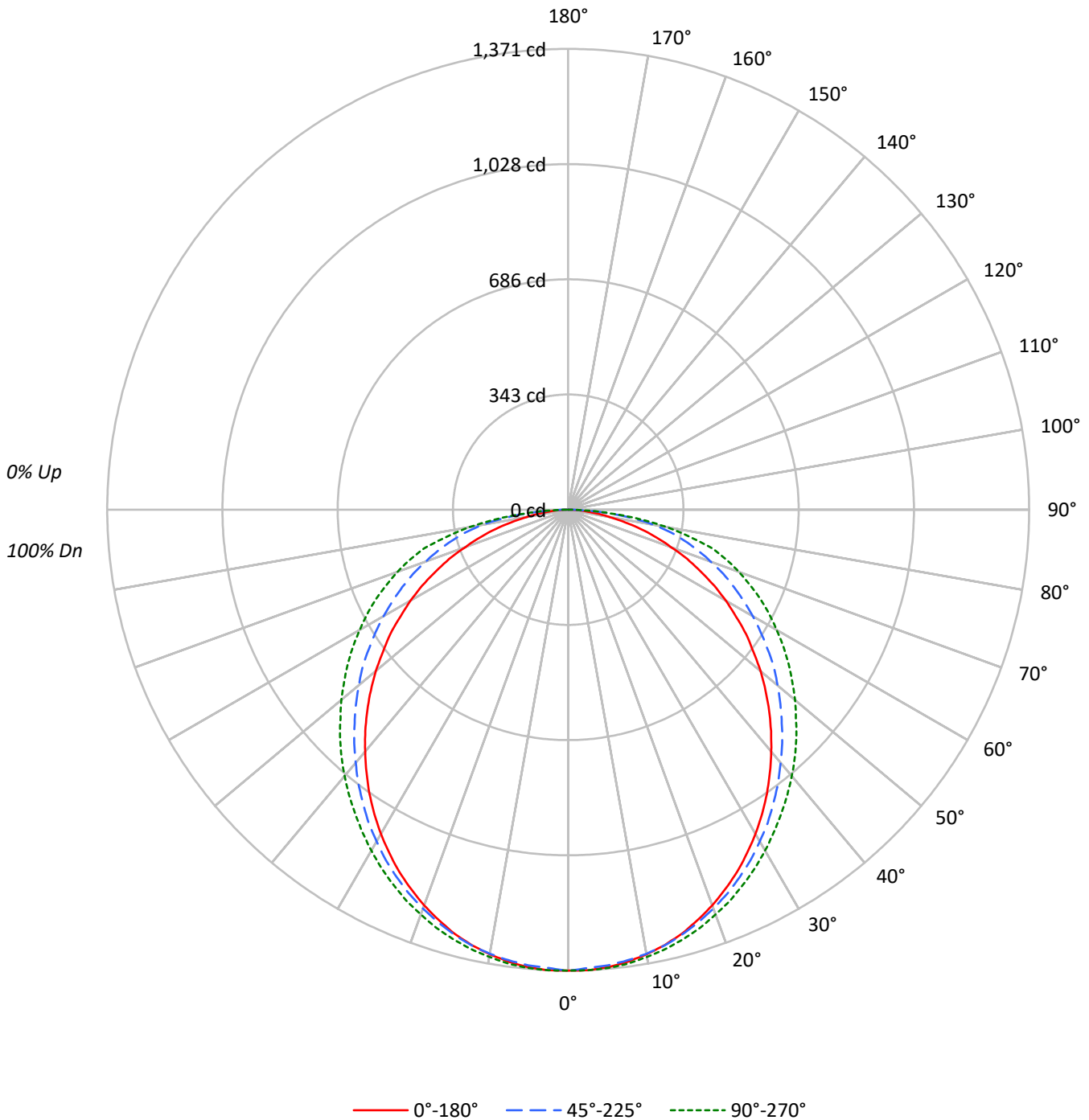
Input Watts (W): 41.004909
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1845	1845	1845
5°	1845	1838	1849
10°	1835	1833	1846
15°	1819	1823	1842
20°	1794	1808	1835
25°	1765	1791	1828
30°	1730	1771	1819
35°	1693	1749	1814
40°	1650	1726	1817
45°	1608	1709	1826
50°	1564	1701	1843
55°	1516	1698	1877
60°	1456	1706	1926
65°	1380	1732	2010
70°	1282	1775	2124
75°	1169	1864	2303
80°	962	2007	2303
85°	736	1853	1978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.2
10°-20°	370.3	9.1
20°-30°	557.2	13.6
30°-40°	667.8	16.3
40°-50°	695.9	17.0
50°-60°	647.5	15.9
60°-70°	533.3	13.1
70°-80°	363.2	8.9
80°-90°	119.9	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°	1057.2	25.9
0°-40°	1725.0	42.2
0°-60°	3068.4	75.1
0°-90°	4084.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1366	1366	1360	1367	1369	130
15°	1306	1307	1309	1321	1322	368
25°	1189	1194	1206	1227	1231	547
35°	1031	1043	1065	1093	1104	644
45°	845	863	898	943	960	652
55°	646	668	724	781	800	576
65°	434	470	544	608	631	430
75°	225	275	358	423	443	237
85°	48	93	120	128	128	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.4	1371.4	1371.4	1371.4	1371.4
2.5°	1371.4	1371.4	1364.6	1371.4	1371.4
5°	1366.0	1366.0	1360.5	1367.3	1368.7
7.5°	1356.4	1357.8	1352.3	1360.5	1361.9
10°	1342.8	1344.2	1341.4	1349.6	1351.0
12.5°	1326.4	1327.8	1327.8	1337.4	1338.7
15°	1306.0	1307.4	1308.7	1321.0	1322.4
17.5°	1280.1	1284.2	1286.9	1301.9	1304.6
20°	1252.8	1256.9	1262.4	1278.7	1281.5
22.5°	1221.5	1226.9	1236.5	1254.2	1258.3
25°	1188.8	1194.2	1206.5	1226.9	1231.0
27.5°	1152.0	1160.1	1175.1	1196.9	1202.4
30°	1113.8	1122.0	1139.7	1162.9	1171.0
32.5°	1072.9	1083.8	1104.2	1130.1	1138.3
35°	1030.6	1042.9	1064.7	1093.3	1104.2
37.5°	985.6	999.3	1025.2	1056.5	1070.2
40°	939.3	955.6	982.9	1019.7	1034.7
42.5°	892.9	907.9	942.0	981.5	997.9
45°	845.2	862.9	898.4	943.4	959.7
47.5°	796.1	813.9	856.1	903.8	918.8
50°	747.1	764.8	812.5	862.9	880.7
52.5°	693.9	717.1	771.6	822.0	839.8
55°	646.2	668.0	723.9	781.1	800.2
57.5°	591.7	617.6	678.9	738.9	759.3
60°	541.2	568.5	633.9	695.3	715.7
62.5°	489.4	519.4	588.9	651.6	674.8
65°	433.5	470.3	543.9	608.0	631.2
67.5°	383.1	421.2	499.0	564.4	584.8
70°	325.8	372.2	451.2	516.7	539.8
72.5°	276.7	323.1	406.3	470.3	493.5
75°	224.9	275.4	358.5	422.6	443.1
77.5°	173.1	229.0	312.2	361.3	368.1
80°	124.1	182.7	259.0	287.6	297.2
82.5°	87.2	140.4	190.9	209.9	215.4
85°	47.7	92.7	120.0	128.1	128.1
87.5°	20.4	39.5	47.7	49.1	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)