

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: P275964

Luminaire Tested: **24CZ2-50-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275964
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: 24CZ2-50-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

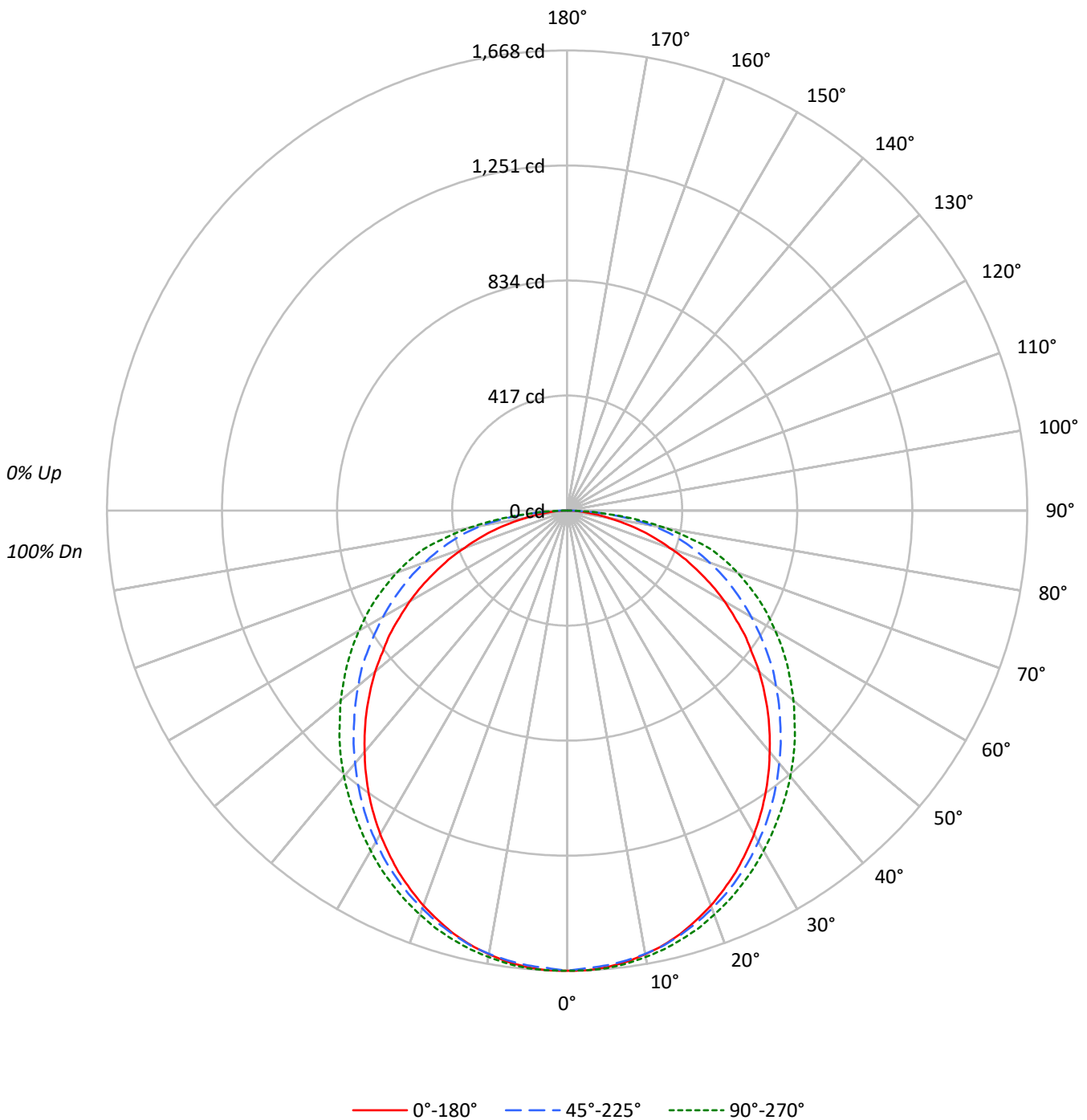
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2244	2244	2244
5°	2244	2235	2248
10°	2231	2229	2245
15°	2213	2217	2240
20°	2182	2198	2232
25°	2146	2178	2223
30°	2105	2153	2213
35°	2059	2127	2206
40°	2007	2100	2210
45°	1956	2079	2221
50°	1902	2069	2242
55°	1844	2065	2283
60°	1771	2075	2342
65°	1679	2106	2444
70°	1559	2159	2583
75°	1422	2267	2802
80°	1169	2441	2801
85°	895	2252	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.2
10°-20°	450.4	9.1
20°-30°	677.7	13.6
30°-40°	812.2	16.3
40°-50°	846.4	17.0
50°-60°	787.5	15.9
60°-70°	648.6	13.1
70°-80°	441.7	8.9
80°-90°	145.8	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°	1285.8	25.9
0°-40°	2098.0	42.2
0°-60°	3731.9	75.1
0°-90°	4968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1661	1661	1655	1663	1665	158
15°	1588	1590	1592	1607	1608	447
25°	1446	1452	1467	1492	1497	666
35°	1254	1268	1295	1330	1343	784
45°	1028	1050	1093	1147	1167	793
55°	786	812	880	950	973	701
65°	527	572	662	740	768	523
75°	274	335	436	514	539	288
85°	58	113	146	156	156	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.0	1668.0	1668.0	1668.0	1668.0
2.5°	1668.0	1668.0	1659.7	1668.0	1668.0
5°	1661.4	1661.4	1654.7	1663.0	1664.7
7.5°	1649.8	1651.4	1644.8	1654.7	1656.4
10°	1633.2	1634.8	1631.5	1641.5	1643.1
12.5°	1613.3	1614.9	1614.9	1626.5	1628.2
15°	1588.4	1590.1	1591.7	1606.6	1608.3
17.5°	1556.9	1561.9	1565.2	1583.4	1586.7
20°	1523.7	1528.7	1535.3	1555.2	1558.6
22.5°	1485.6	1492.2	1503.8	1525.4	1530.4
25°	1445.8	1452.4	1467.4	1492.2	1497.2
27.5°	1401.0	1411.0	1429.2	1455.8	1462.4
30°	1354.6	1364.6	1386.1	1414.3	1424.3
32.5°	1304.9	1318.1	1343.0	1374.5	1384.5
35°	1253.5	1268.4	1294.9	1329.7	1343.0
37.5°	1198.8	1215.3	1246.8	1285.0	1301.6
40°	1142.4	1162.3	1195.4	1240.2	1258.5
42.5°	1086.0	1104.3	1145.7	1193.8	1213.7
45°	1028.0	1049.5	1092.6	1147.4	1167.3
47.5°	968.3	989.9	1041.2	1099.3	1117.5
50°	908.6	930.2	988.2	1049.5	1071.1
52.5°	843.9	872.1	938.5	999.8	1021.4
55°	785.9	812.4	880.4	950.1	973.3
57.5°	719.6	751.1	825.7	898.7	923.5
60°	658.2	691.4	771.0	845.6	870.5
62.5°	595.2	631.7	716.3	792.5	820.7
65°	527.3	572.0	661.6	739.5	767.7
67.5°	465.9	512.3	606.8	686.4	711.3
70°	396.3	452.6	548.8	628.4	656.6
72.5°	336.6	393.0	494.1	572.0	600.2
75°	273.6	334.9	436.1	514.0	538.9
77.5°	210.6	278.6	379.7	439.4	447.7
80°	150.9	222.2	315.0	349.8	361.5
82.5°	106.1	170.8	232.1	255.3	262.0
85°	58.0	112.7	145.9	155.9	155.9
87.5°	24.9	48.1	58.0	59.7	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)