

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: P272172

Luminaire Tested: **24CZ2-55-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P272172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55-S-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

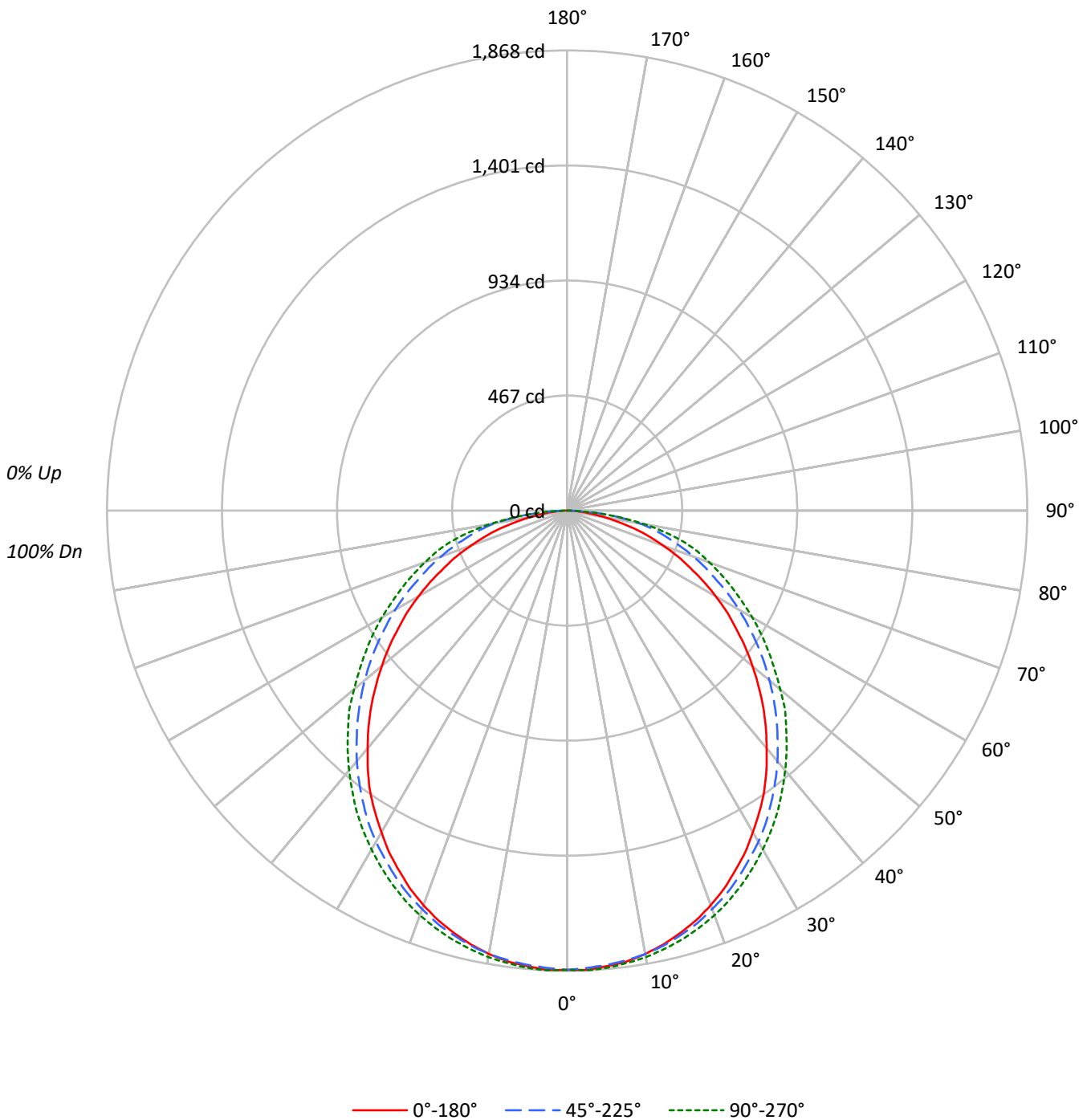
Lumens per Lamp: N/A
Luminaire Lumens: 5308.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.5
Input Voltage (V): NR
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2507	2500	2516
10°	2497	2497	2515
15°	2473	2485	2511
20°	2441	2465	2503
25°	2395	2441	2488
30°	2342	2412	2467
35°	2290	2373	2448
40°	2212	2334	2419
45°	2140	2287	2393
50°	2057	2245	2364
55°	1966	2203	2341
60°	1874	2169	2337
65°	1755	2131	2351
70°	1625	2142	2414
75°	1455	2182	2550
80°	1175	2312	2495
85°	885	2030	1978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.3
10°-20°	504.4	9.5
20°-30°	758.3	14.3
30°-40°	903.2	17.0
40°-50°	924.4	17.4
50°-60°	832.2	15.7
60°-70°	653.6	12.3
70°-80°	424.2	8.0
80°-90°	131.2	2.5
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°	1439.2	27.1
0°-40°	2342.4	44.1
0°-60°	4099.1	77.2
0°-90°	5308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1865	1865	1865	1865	1865	
5°	1856	1860	1851	1861	1863	176
15°	1775	1780	1784	1799	1802	501
25°	1614	1627	1644	1671	1676	743
35°	1394	1411	1445	1480	1490	870
45°	1125	1152	1202	1248	1258	867
55°	838	875	939	988	998	751
65°	551	594	669	725	738	549
75°	280	334	420	477	491	296
85°	57	106	132	128	128	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.7	1864.7	1864.7	1864.7	1864.7
2.5°	1866.4	1866.4	1858.0	1866.4	1868.1
5°	1856.3	1859.7	1851.2	1861.4	1863.0
7.5°	1846.2	1846.2	1841.1	1851.2	1852.9
10°	1827.6	1829.3	1827.6	1839.4	1841.1
12.5°	1804.0	1807.4	1809.1	1820.9	1822.6
15°	1775.4	1780.4	1783.8	1799.0	1802.4
17.5°	1743.3	1748.4	1756.8	1773.7	1777.1
20°	1704.6	1711.3	1721.4	1743.3	1748.4
22.5°	1662.4	1669.2	1686.0	1706.2	1714.7
25°	1613.5	1627.0	1643.9	1670.8	1675.9
27.5°	1564.6	1576.4	1598.3	1627.0	1633.8
30°	1507.3	1525.8	1552.8	1581.5	1588.2
32.5°	1451.7	1470.2	1502.2	1532.6	1541.0
35°	1394.3	1411.2	1444.9	1480.3	1490.4
37.5°	1328.6	1350.5	1387.6	1423.0	1433.1
40°	1259.5	1286.4	1328.6	1365.7	1377.5
42.5°	1193.7	1222.4	1264.5	1305.0	1318.5
45°	1124.6	1151.5	1202.1	1247.7	1257.8
47.5°	1053.8	1084.1	1138.1	1183.6	1200.4
50°	982.9	1015.0	1072.3	1119.5	1129.6
52.5°	912.1	945.9	1006.6	1057.1	1062.2
55°	838.0	875.0	939.1	988.0	998.1
57.5°	770.5	802.5	871.7	922.3	934.1
60°	696.3	731.7	805.9	853.1	868.3
62.5°	625.5	662.6	740.2	787.4	800.9
65°	551.3	593.5	669.3	725.0	738.5
67.5°	487.3	527.7	608.7	662.6	676.1
70°	413.1	458.6	544.6	600.2	613.7
72.5°	349.0	396.2	482.2	536.2	556.4
75°	279.9	333.8	419.8	477.1	490.6
77.5°	212.4	274.8	362.5	406.3	406.3
80°	151.7	217.5	298.4	318.7	322.0
82.5°	99.5	163.5	220.9	219.2	219.2
85°	57.3	106.2	131.5	128.1	128.1
87.5°	21.9	43.8	47.2	47.2	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)