

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: P234102

Luminaire Tested: **22GR-LD5-50-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

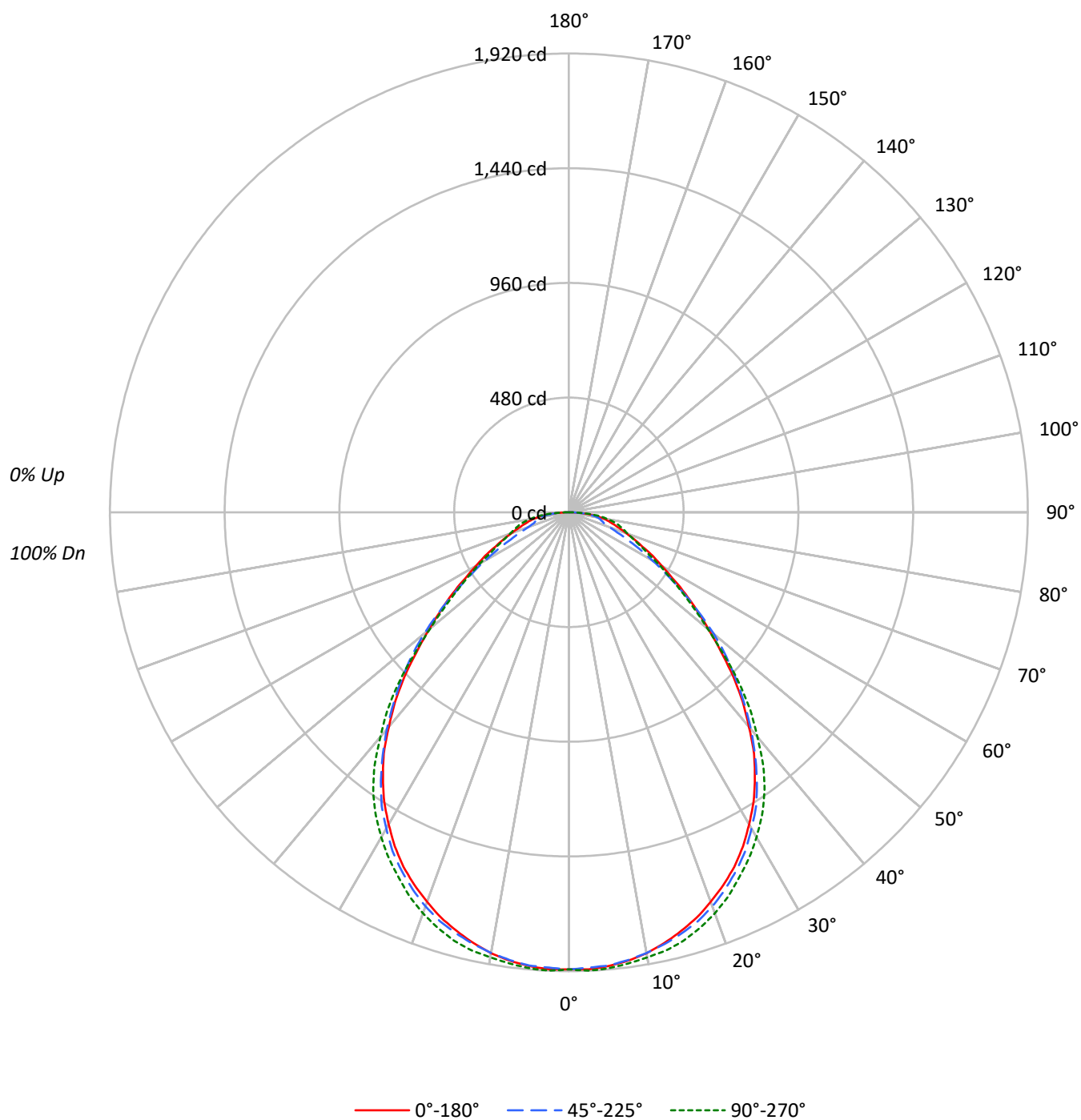
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6126	6126	6126
5°	6127	6118	6156
10°	6091	6088	6148
15°	6013	6045	6152
20°	5910	5979	6085
25°	5784	5849	5956
30°	5575	5650	5805
35°	5301	5362	5578
40°	4900	4953	5128
45°	4402	4481	4552
50°	3806	3942	3768
55°	3321	3234	3191
60°	2876	2590	2764
65°	2570	2033	2482
70°	2385	1684	2449
75°	2381	1779	2717
80°	2635	2241	3065
85°	2752	2429	3465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.3
10°-20°	515.6	12.3
20°-30°	762.5	18.3
30°-40°	860.4	20.6
40°-50°	758.5	18.2
50°-60°	520.3	12.5
60°-70°	307.0	7.4
70°-80°	191.6	4.6
80°-90°	79.9	1.9
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°	1459.1	34.9
0°-40°	2319.5	55.5
0°-60°	3598.3	86.1
0°-90°	4176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1906	1902	1903	1910	1915	181
15°	1814	1816	1823	1846	1856	511
25°	1637	1643	1655	1677	1686	752
35°	1356	1368	1372	1404	1427	845
45°	972	977	990	995	1005	747
55°	595	580	579	560	572	534
65°	339	298	268	310	328	342
75°	192	173	144	201	220	206
85°	75	70	66	86	94	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.8	1912.8	1912.8	1912.8	1912.8
2.5°	1913.9	1909.0	1907.1	1914.8	1919.6
5°	1906.0	1902.2	1903.2	1910.0	1914.8
7.5°	1892.4	1889.6	1889.6	1899.2	1904.1
10°	1873.1	1872.0	1872.0	1883.7	1890.5
12.5°	1845.8	1846.8	1850.6	1866.2	1877.9
15°	1813.7	1815.7	1823.4	1845.8	1855.6
17.5°	1778.7	1778.7	1794.3	1811.8	1823.4
20°	1734.0	1737.0	1754.4	1773.9	1785.5
22.5°	1688.4	1693.2	1707.8	1730.2	1740.8
25°	1636.8	1642.6	1655.3	1676.7	1685.5
27.5°	1576.6	1584.3	1597.9	1613.5	1632.0
30°	1507.6	1519.2	1528.0	1549.4	1569.8
32.5°	1437.6	1448.2	1458.0	1480.4	1503.6
35°	1355.9	1367.6	1371.5	1404.5	1426.9
37.5°	1272.4	1277.2	1279.2	1312.1	1336.5
40°	1172.2	1181.9	1184.8	1211.1	1226.6
42.5°	1076.0	1079.8	1085.7	1105.2	1123.6
45°	972.0	976.8	989.5	995.4	1005.0
47.5°	863.1	877.7	892.2	873.8	874.8
50°	764.0	775.6	791.2	756.2	756.2
52.5°	675.5	681.4	682.3	653.1	659.0
55°	594.8	580.3	579.3	559.9	571.5
57.5°	514.2	494.7	487.9	482.1	495.7
60°	449.1	414.0	404.3	413.1	431.5
62.5°	395.6	350.9	332.4	354.8	371.3
65°	339.2	298.4	268.3	310.1	327.6
67.5°	295.5	256.6	217.7	277.0	289.7
70°	254.7	224.6	179.8	251.8	261.5
72.5°	221.6	198.3	155.5	227.5	239.1
75°	192.4	173.0	143.8	201.2	219.6
77.5°	169.2	147.7	134.1	174.0	196.4
80°	142.9	121.5	121.5	145.8	166.2
82.5°	112.7	95.3	98.2	118.6	133.2
85°	74.9	70.0	66.1	86.5	94.3
87.5°	37.9	38.8	35.0	44.7	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)