

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: P234055

Luminaire Tested: **14GR-LD5-50-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-F1-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4257.9 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

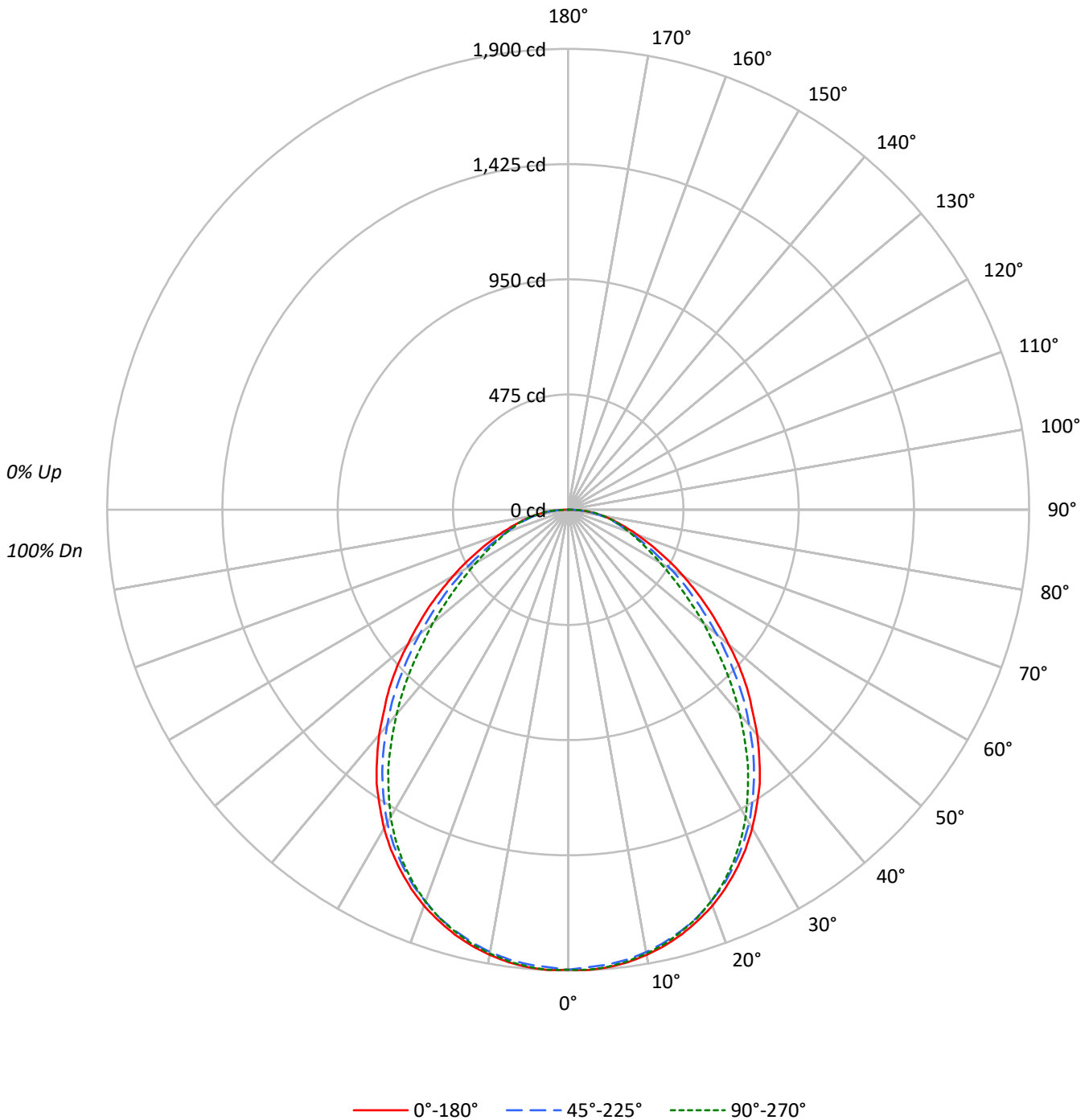
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6391	6391	6391
5°	6406	6365	6399
10°	6377	6336	6357
15°	6321	6272	6282
20°	6232	6164	6167
25°	6090	6016	5975
30°	5902	5802	5693
35°	5661	5496	5315
40°	5333	5104	4835
45°	4972	4672	4325
50°	4521	4191	3819
55°	4116	3716	3329
60°	3690	3273	2957
65°	3290	2917	2717
70°	2993	2659	2629
75°	2796	2589	2720
80°	2812	2676	2831
85°	2934	2745	3128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	4.2
10°-20°	508.5	11.9
20°-30°	745.5	17.5
30°-40°	832.1	19.5
40°-50°	753.4	17.7
50°-60°	568.8	13.4
60°-70°	371.8	8.7
70°-80°	218.4	5.1
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°	1433.4	33.7
0°-40°	2265.5	53.2
0°-60°	3587.7	84.3
0°-90°	4257.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1897	1897	1897	1897	1897	
5°	1894	1890	1882	1893	1892	180
15°	1812	1809	1798	1808	1801	511
25°	1638	1632	1618	1615	1607	753
35°	1376	1364	1336	1306	1292	857
45°	1043	1027	980	927	908	802
55°	701	685	633	583	567	627
65°	413	400	366	345	341	414
75°	215	209	199	203	209	231
85°	76	73	71	80	81	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896.8	1896.8	1896.8	1896.8	1896.8
2.5°	1899.8	1896.8	1887.9	1899.8	1898.9
5°	1893.9	1889.8	1881.9	1892.9	1891.8
7.5°	1881.9	1877.9	1869.9	1879.9	1877.9
10°	1863.9	1859.8	1851.8	1862.8	1857.9
12.5°	1840.9	1836.9	1827.9	1837.9	1833.9
15°	1811.9	1808.9	1797.9	1807.9	1800.9
17.5°	1776.9	1771.9	1763.9	1770.0	1764.9
20°	1738.0	1732.0	1719.0	1725.0	1719.9
22.5°	1690.9	1683.0	1674.0	1674.0	1667.0
25°	1638.0	1632.0	1618.0	1615.0	1607.0
27.5°	1581.0	1576.0	1558.1	1553.1	1539.1
30°	1517.0	1510.1	1491.1	1475.1	1463.1
32.5°	1446.1	1441.1	1415.1	1394.1	1377.2
35°	1376.2	1364.1	1336.2	1306.2	1292.2
37.5°	1294.2	1285.2	1250.3	1213.3	1194.3
40°	1212.3	1201.2	1160.3	1119.3	1099.3
42.5°	1123.3	1113.4	1074.3	1025.4	1004.4
45°	1043.4	1027.4	980.4	927.4	907.5
47.5°	955.5	938.4	888.5	832.5	809.5
50°	862.5	851.5	799.5	745.5	728.6
52.5°	779.5	762.6	713.5	660.6	642.6
55°	700.6	684.6	632.6	582.6	566.7
57.5°	621.6	603.6	558.7	513.7	497.7
60°	547.6	529.7	485.7	448.7	438.8
62.5°	480.7	460.7	421.7	392.8	385.8
65°	412.7	399.7	365.8	344.8	340.8
67.5°	355.8	339.8	312.8	302.8	300.8
70°	303.8	292.8	269.9	266.9	266.9
72.5°	256.9	247.9	230.8	232.9	235.9
75°	214.8	208.9	198.9	202.9	208.9
77.5°	178.9	172.9	166.9	172.9	176.9
80°	144.9	138.9	137.9	142.9	145.9
82.5°	109.0	104.0	104.9	112.9	115.9
85°	75.9	72.9	71.0	80.0	80.9
87.5°	39.0	37.0	35.9	43.0	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)