

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: P234054

Luminaire Tested: **14GR-LD5-50-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234054
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-L935-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4208.3 lumens
Efficiency: N/A
Efficacy: 93.3 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

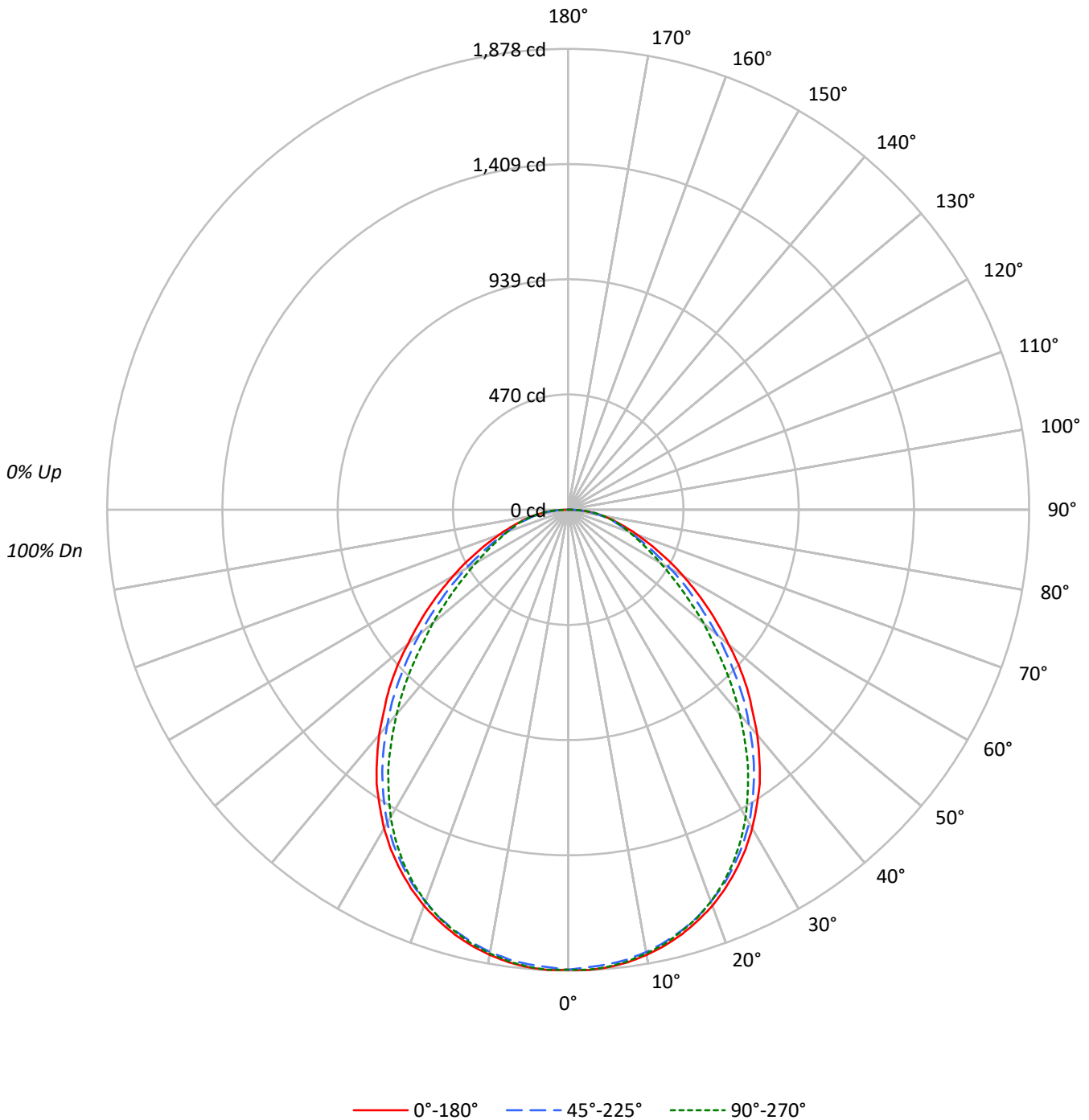
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6317	6317	6317
5°	6332	6291	6324
10°	6303	6262	6283
15°	6247	6199	6209
20°	6160	6092	6096
25°	6019	5946	5905
30°	5834	5734	5627
35°	5595	5432	5254
40°	5270	5044	4780
45°	4914	4618	4274
50°	4469	4142	3775
55°	4068	3673	3290
60°	3648	3235	2923
65°	3252	2882	2686
70°	2959	2628	2599
75°	2764	2560	2688
80°	2779	2645	2798
85°	2903	2710	3093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	4.2
10°-20°	502.6	11.9
20°-30°	736.9	17.5
30°-40°	822.4	19.5
40°-50°	744.6	17.7
50°-60°	562.2	13.4
60°-70°	367.5	8.7
70°-80°	215.9	5.1
80°-90°	79.0	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°	1416.7	33.7
0°-40°	2239.1	53.2
0°-60°	3545.9	84.3
0°-90°	4208.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1872	1868	1860	1871	1870	178
15°	1791	1788	1777	1787	1780	505
25°	1619	1613	1599	1596	1588	745
35°	1360	1348	1321	1291	1277	847
45°	1031	1015	969	917	897	792
55°	692	677	625	576	560	620
65°	408	395	362	341	337	409
75°	212	206	197	200	206	228
85°	75	72	70	79	80	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.8	1874.8	1874.8	1874.8	1874.8
2.5°	1877.7	1874.8	1865.9	1877.7	1876.8
5°	1871.9	1867.9	1860.0	1870.8	1869.8
7.5°	1860.0	1856.1	1848.2	1858.0	1856.1
10°	1842.2	1838.2	1830.3	1841.2	1836.3
12.5°	1819.5	1815.5	1806.7	1816.5	1812.5
15°	1790.9	1787.9	1777.0	1786.9	1780.0
17.5°	1756.3	1751.3	1743.4	1749.4	1744.4
20°	1717.8	1711.8	1699.0	1704.9	1699.9
22.5°	1671.3	1663.4	1654.5	1654.5	1647.6
25°	1619.0	1613.0	1599.2	1596.2	1588.3
27.5°	1562.6	1557.7	1539.9	1535.0	1521.2
30°	1499.4	1492.5	1473.7	1457.9	1446.1
32.5°	1429.3	1424.3	1398.7	1377.9	1361.2
35°	1360.2	1348.3	1320.6	1291.0	1277.2
37.5°	1279.2	1270.2	1235.7	1199.2	1180.4
40°	1198.2	1187.3	1146.8	1106.3	1086.6
42.5°	1110.3	1100.4	1061.8	1013.5	992.7
45°	1031.2	1015.4	969.0	916.6	896.9
47.5°	944.4	927.5	878.1	822.8	800.1
50°	852.5	841.6	790.2	736.9	720.1
52.5°	770.4	753.7	705.2	652.9	635.1
55°	692.4	676.6	625.3	575.9	560.1
57.5°	614.4	596.6	552.2	507.7	491.9
60°	541.3	523.5	480.1	443.5	433.7
62.5°	475.2	455.3	416.8	388.2	381.3
65°	407.9	395.1	361.5	340.8	336.9
67.5°	351.6	335.8	309.1	299.3	297.3
70°	300.3	289.4	266.7	263.8	263.8
72.5°	253.9	245.0	228.1	230.2	233.2
75°	212.3	206.5	196.6	200.5	206.5
77.5°	176.8	170.8	165.0	170.8	174.8
80°	143.2	137.3	136.3	141.3	144.2
82.5°	107.7	102.8	103.7	111.6	114.6
85°	75.1	72.1	70.1	79.0	80.0
87.5°	38.5	36.6	35.5	42.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)