

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: P290645

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

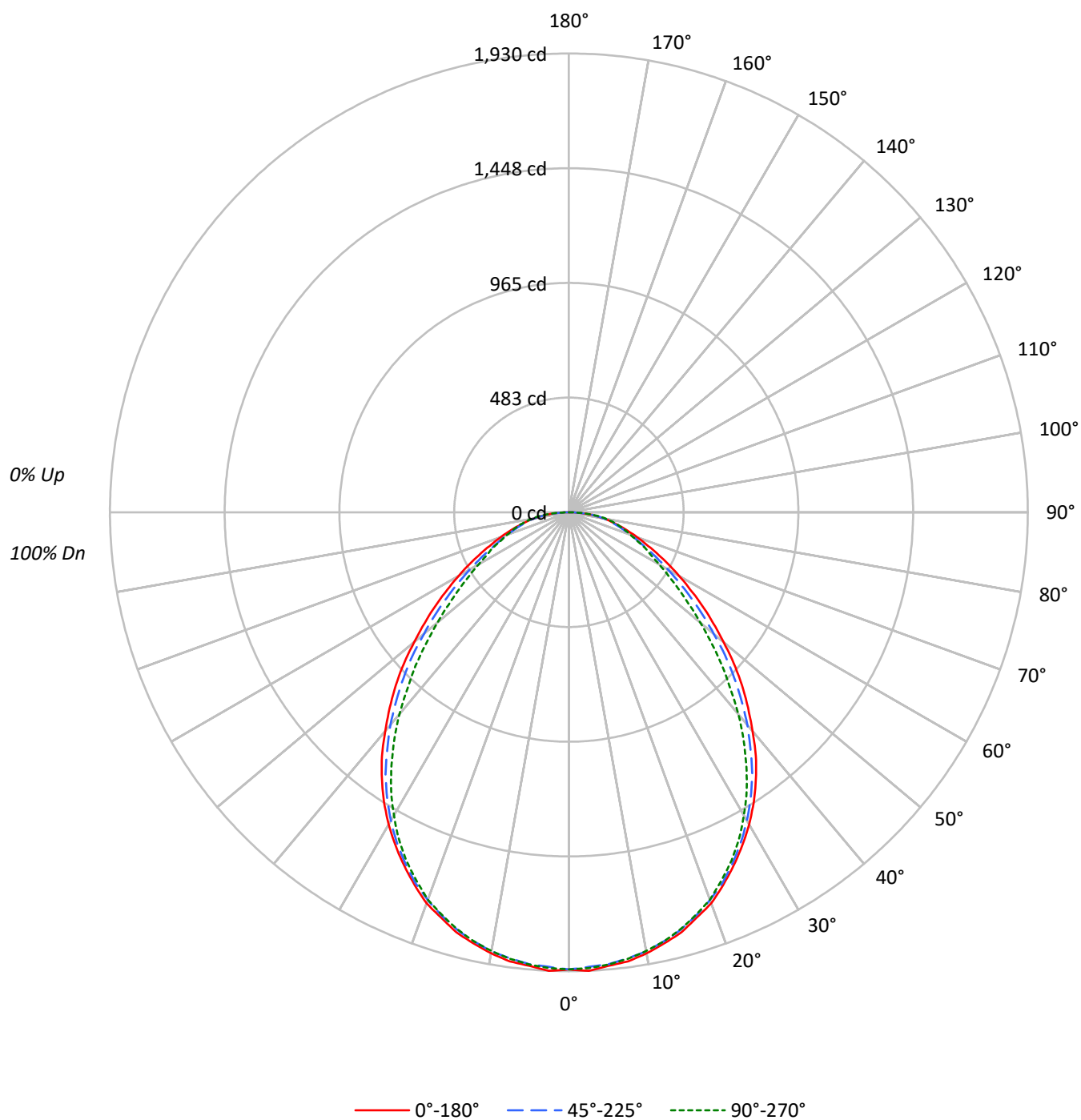
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			52	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5174	5174	5174
5°	5172	5154	5156
10°	5146	5122	5120
15°	5094	5064	5056
20°	5012	4970	4964
25°	4868	4836	4801
30°	4710	4653	4573
35°	4504	4416	4272
40°	4217	4100	3897
45°	3916	3740	3468
50°	3553	3331	3019
55°	3214	2942	2639
60°	2885	2579	2352
65°	2590	2302	2252
70°	2390	2143	2167
75°	2282	2150	2272
80°	2307	2294	2475
85°	2390	2359	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	4.2
10°-20°	513.1	12.0
20°-30°	749.3	17.5
30°-40°	835.0	19.5
40°-50°	752.3	17.6
50°-60°	562.4	13.2
60°-70°	371.0	8.7
70°-80°	226.5	5.3
80°-90°	84.0	2.0
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°	1443.9	33.8
0°-40°	2278.9	53.3
0°-60°	3593.6	84.1
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1915	1913	1908	1918	1909	182
15°	1828	1822	1818	1828	1815	515
25°	1639	1634	1629	1632	1617	755
35°	1371	1359	1344	1321	1300	855
45°	1029	1018	983	938	911	792
55°	685	674	627	575	562	613
65°	407	394	362	347	354	408
75°	220	216	207	214	218	234
85°	77	74	76	84	85	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1930.4	1921.6	1913.8	1925.5	1918.7
5°	1914.7	1912.8	1907.9	1917.7	1908.9
7.5°	1904.9	1898.1	1892.2	1904.0	1894.2
10°	1883.4	1879.5	1874.6	1884.4	1873.6
12.5°	1856.9	1853.0	1848.1	1859.9	1848.1
15°	1828.5	1821.6	1817.7	1828.5	1814.8
17.5°	1787.3	1784.4	1778.5	1789.3	1775.6
20°	1750.1	1739.3	1735.4	1743.3	1733.5
22.5°	1696.2	1688.4	1687.4	1692.3	1675.6
25°	1639.4	1633.5	1628.6	1631.5	1616.8
27.5°	1579.6	1571.8	1565.9	1564.9	1549.2
30°	1515.9	1506.1	1497.3	1489.5	1471.8
32.5°	1446.3	1434.6	1422.8	1410.1	1391.5
35°	1370.9	1359.1	1344.4	1320.9	1300.3
37.5°	1291.5	1277.8	1254.3	1226.8	1206.3
40°	1200.4	1193.5	1167.1	1131.8	1109.3
42.5°	1115.1	1107.3	1074.0	1034.8	1004.4
45°	1028.9	1018.1	982.8	937.8	911.3
47.5°	940.7	929.9	890.7	834.9	811.4
50°	848.6	842.7	795.7	744.7	721.2
52.5°	764.3	757.5	709.5	658.5	636.9
55°	685.0	674.2	627.1	575.2	562.5
57.5°	605.6	593.8	549.7	505.6	496.8
60°	536.0	521.3	479.2	444.9	437.0
62.5°	470.4	453.7	418.4	392.0	388.0
65°	406.7	393.9	361.6	346.9	353.7
67.5°	351.8	339.0	315.5	309.7	307.7
70°	303.8	292.0	272.4	274.4	275.4
72.5°	259.7	252.8	238.1	243.0	246.9
75°	219.5	215.6	206.8	213.6	218.5
77.5°	183.2	180.3	176.4	182.3	190.1
80°	148.9	147.0	148.0	151.9	159.7
82.5°	114.6	110.7	113.7	121.5	126.4
85°	77.4	74.5	76.4	84.3	85.3
87.5°	36.3	36.3	35.3	41.2	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)