

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: P290840

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4264.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

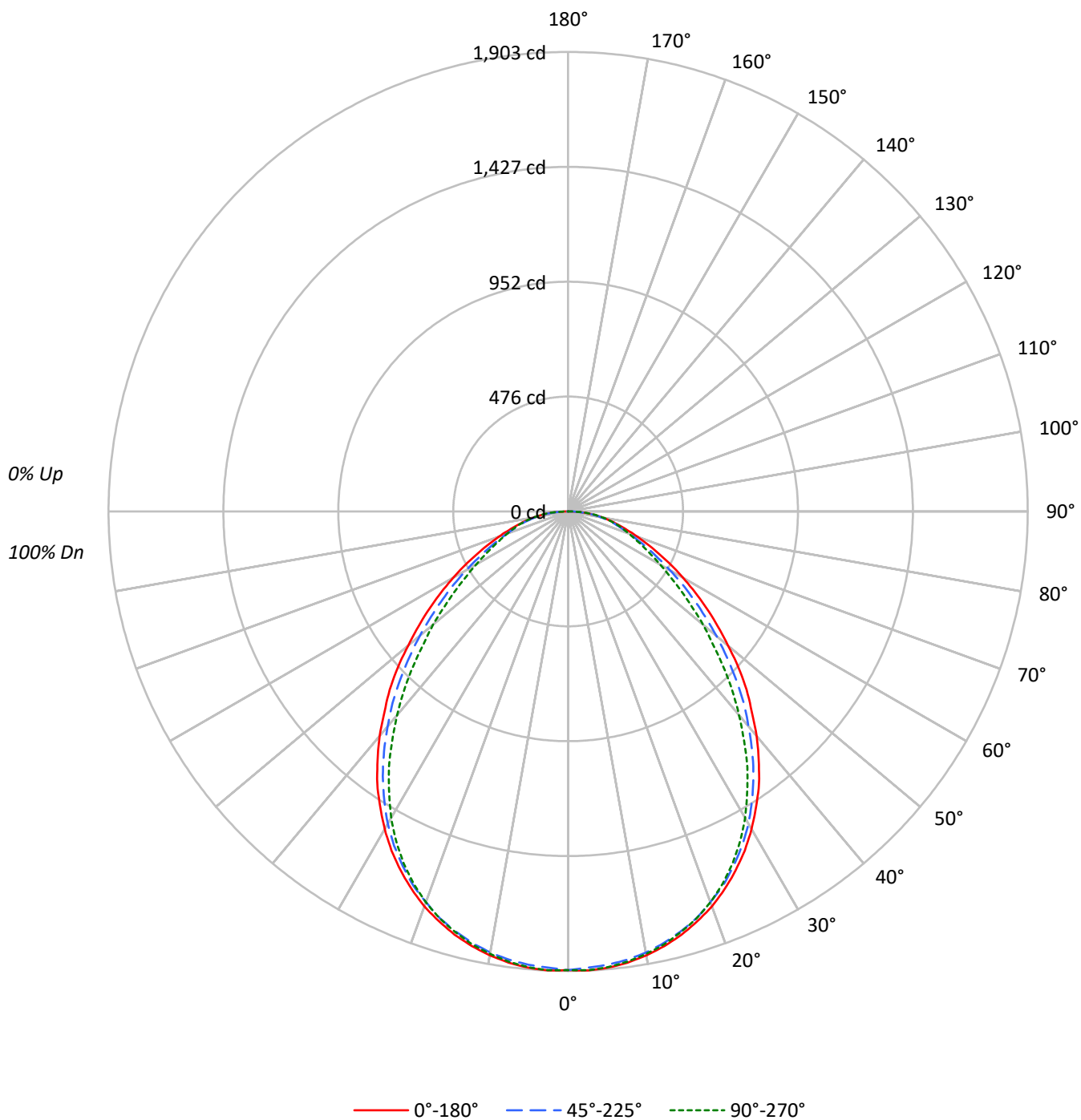
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5112	5112	5112
5°	5123	5091	5118
10°	5100	5067	5084
15°	5055	5016	5024
20°	4984	4930	4932
25°	4871	4811	4778
30°	4721	4640	4553
35°	4527	4396	4251
40°	4265	4082	3867
45°	3976	3736	3459
50°	3616	3352	3054
55°	3292	2972	2662
60°	2952	2618	2365
65°	2632	2332	2173
70°	2394	2126	2102
75°	2237	2071	2175
80°	2249	2140	2264
85°	2350	2195	2504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	4.2
10°-20°	509.2	11.9
20°-30°	746.6	17.5
30°-40°	833.3	19.5
40°-50°	754.4	17.7
50°-60°	569.7	13.4
60°-70°	372.4	8.7
70°-80°	218.7	5.1
80°-90°	80.1	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°	1435.4	33.7
0°-40°	2268.7	53.2
0°-60°	3592.8	84.3
0°-90°	4264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1897	1893	1885	1896	1895	180
15°	1814	1812	1800	1810	1804	511
25°	1640	1634	1620	1617	1609	755
35°	1378	1366	1338	1308	1294	858
45°	1045	1029	982	929	909	803
55°	702	686	634	584	568	628
65°	413	400	366	345	341	415
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°	1899.6	1899.6	1899.6	1899.6	1899.6
2.5°	1902.6	1899.6	1890.6	1902.6	1901.6
5°	1896.6	1892.6	1884.6	1895.6	1894.6
7.5°	1884.6	1880.6	1872.6	1882.6	1880.6
10°	1866.6	1862.6	1854.5	1865.6	1860.6
12.5°	1843.5	1839.5	1830.5	1840.5	1836.5
15°	1814.5	1811.5	1800.5	1810.5	1803.5
17.5°	1779.5	1774.5	1766.5	1772.5	1767.5
20°	1740.5	1734.4	1721.4	1727.4	1722.4
22.5°	1693.4	1685.4	1676.4	1676.4	1669.4
25°	1640.4	1634.4	1620.4	1617.3	1609.3
27.5°	1583.3	1578.3	1560.3	1555.3	1541.3
30°	1519.3	1512.3	1493.2	1477.2	1465.2
32.5°	1448.2	1443.2	1417.2	1396.2	1379.2
35°	1378.1	1366.1	1338.1	1308.1	1294.1
37.5°	1296.1	1287.1	1252.0	1215.0	1196.0
40°	1214.0	1203.0	1162.0	1120.9	1100.9
42.5°	1124.9	1114.9	1075.9	1026.9	1005.8
45°	1044.9	1028.9	981.8	928.8	908.8
47.5°	956.8	939.8	889.7	833.7	810.7
50°	863.7	852.7	800.7	746.6	729.6
52.5°	780.7	763.6	714.6	661.6	643.5
55°	701.6	685.6	633.5	583.5	567.5
57.5°	622.5	604.5	559.5	514.4	498.4
60°	548.5	530.4	486.4	449.4	439.4
62.5°	481.4	461.4	422.4	393.3	386.3
65°	413.3	400.3	366.3	345.3	341.3
67.5°	356.3	340.3	313.3	303.3	301.3
70°	304.3	293.2	270.2	267.2	267.2
72.5°	257.2	248.2	231.2	233.2	236.2
75°	215.2	209.2	199.2	203.2	209.2
77.5°	179.1	173.1	167.1	173.1	177.1
80°	145.1	139.1	138.1	143.1	146.1
82.5°	109.1	104.1	105.1	113.1	116.1
85°	76.1	73.1	71.1	80.1	81.1
87.5°	39.0	37.0	36.0	43.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)