

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: P290839

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290839
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

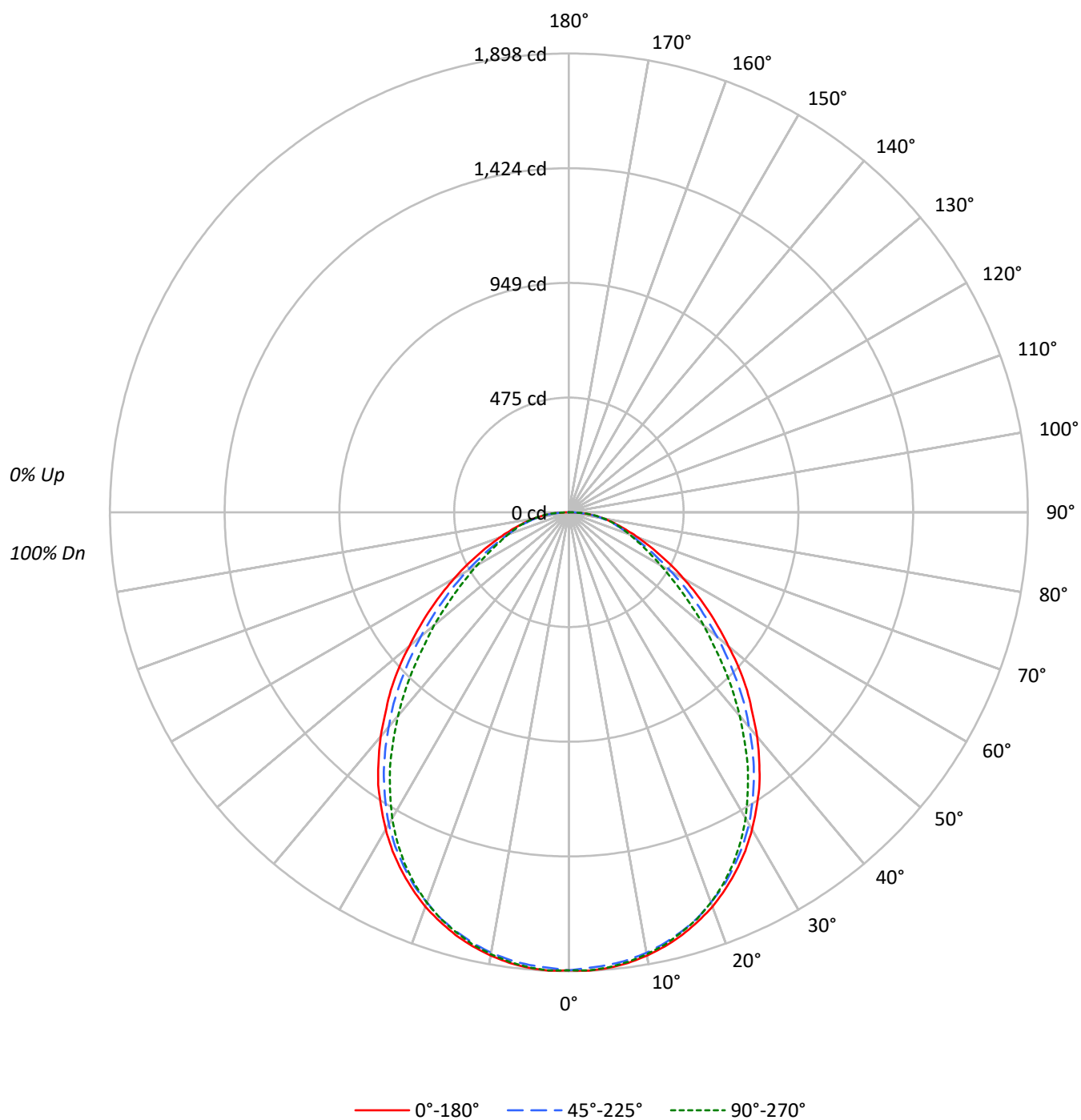
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5099	5099	5099
5°	5110	5078	5105
10°	5087	5055	5071
15°	5042	5003	5012
20°	4971	4917	4920
25°	4858	4799	4766
30°	4708	4628	4541
35°	4516	4385	4240
40°	4254	4071	3857
45°	3966	3727	3449
50°	3607	3343	3046
55°	3283	2965	2655
60°	2944	2611	2358
65°	2625	2327	2167
70°	2388	2120	2097
75°	2231	2066	2169
80°	2242	2135	2258
85°	2343	2189	2498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	4.2
10°-20°	507.9	11.9
20°-30°	744.7	17.5
30°-40°	831.2	19.5
40°-50°	752.5	17.7
50°-60°	568.2	13.4
60°-70°	371.4	8.7
70°-80°	218.1	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°	1431.7	33.7
0°-40°	2262.9	53.2
0°-60°	3583.6	84.3
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1892	1888	1880	1891	1890	180
15°	1810	1807	1796	1806	1799	510
25°	1636	1630	1616	1613	1605	753
35°	1375	1363	1335	1305	1291	856
45°	1042	1026	979	926	906	801
55°	700	684	632	582	566	626
65°	412	399	365	344	340	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°	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1897.7	1894.7	1885.7	1897.7	1896.7
5°	1891.7	1887.7	1879.7	1890.7	1889.7
7.5°	1879.7	1875.7	1867.7	1877.7	1875.7
10°	1861.7	1857.7	1849.8	1860.7	1855.8
12.5°	1838.8	1834.8	1825.8	1835.8	1831.8
15°	1809.8	1806.8	1795.9	1805.8	1798.9
17.5°	1774.9	1769.9	1761.9	1767.9	1762.9
20°	1736.0	1730.0	1717.0	1723.0	1718.0
22.5°	1689.0	1681.1	1672.1	1672.1	1665.1
25°	1636.1	1630.1	1616.2	1613.2	1605.2
27.5°	1579.2	1574.2	1556.3	1551.3	1537.3
30°	1515.3	1508.4	1489.4	1473.4	1461.4
32.5°	1444.5	1439.5	1413.5	1392.6	1375.6
35°	1374.6	1362.6	1334.7	1304.7	1290.7
37.5°	1292.7	1283.8	1248.8	1211.9	1192.9
40°	1210.9	1199.9	1159.0	1118.0	1098.1
42.5°	1122.0	1112.1	1073.1	1024.2	1003.2
45°	1042.2	1026.2	979.3	926.4	906.4
47.5°	954.3	937.4	887.4	831.5	808.6
50°	861.5	850.5	798.6	744.7	727.7
52.5°	778.6	761.7	712.8	659.8	641.9
55°	699.8	683.8	631.9	582.0	566.0
57.5°	620.9	602.9	558.0	513.1	497.1
60°	547.0	529.1	485.2	448.2	438.2
62.5°	480.2	460.2	421.3	392.3	385.3
65°	412.3	399.3	365.4	344.4	340.4
67.5°	355.4	339.4	312.5	302.5	300.5
70°	303.5	292.5	269.5	266.5	266.5
72.5°	256.6	247.6	230.6	232.6	235.6
75°	214.6	208.6	198.7	202.6	208.6
77.5°	178.7	172.7	166.7	172.7	176.7
80°	144.7	138.8	137.8	142.8	145.7
82.5°	108.8	103.8	104.8	112.8	115.8
85°	75.9	72.9	70.9	79.9	80.9
87.5°	38.9	36.9	35.9	42.9	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)