

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: P290778

Luminaire Tested: **14GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290778
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

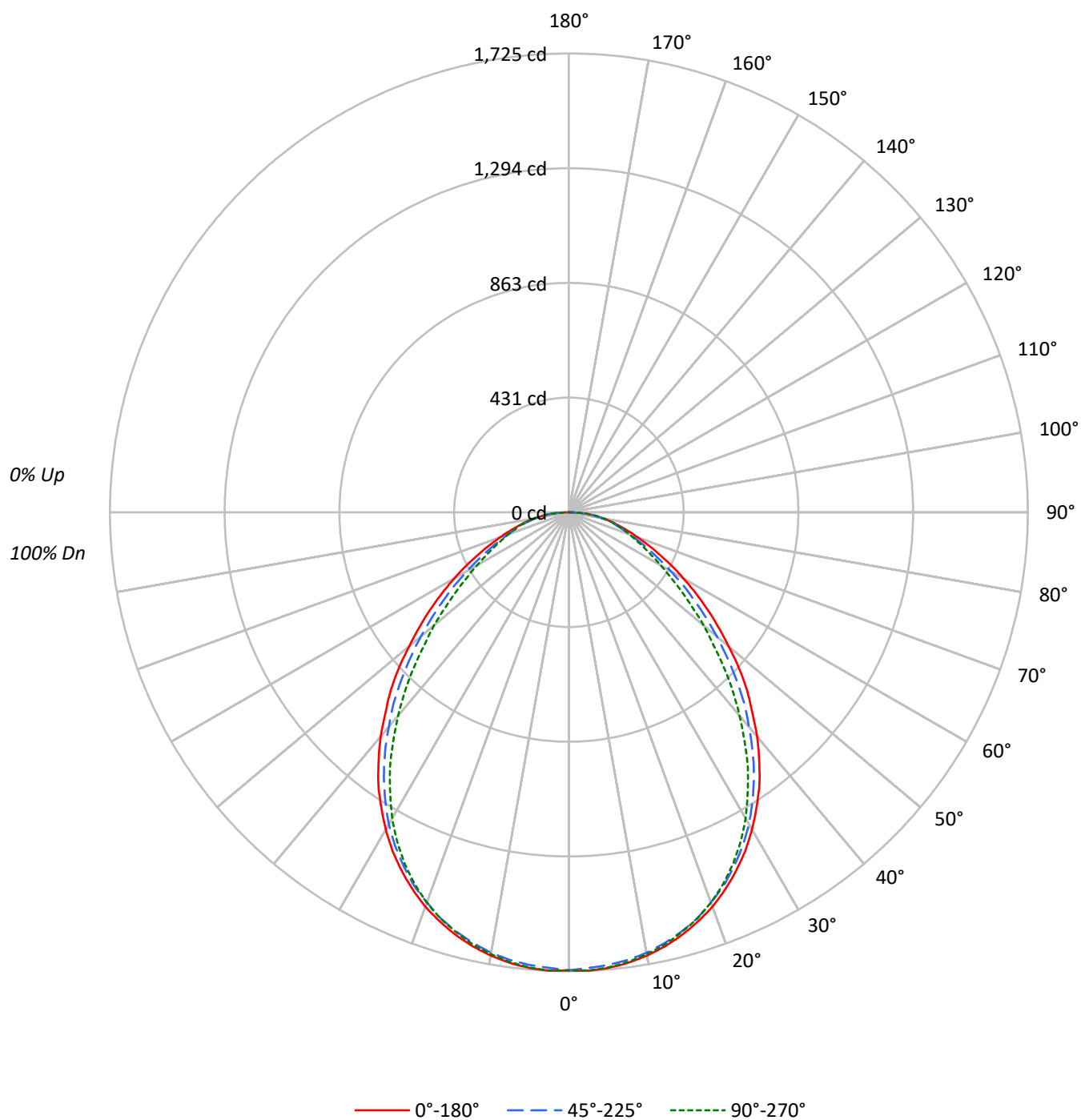
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4633	4633	4633
5°	4644	4614	4639
10°	4623	4593	4608
15°	4582	4547	4554
20°	4518	4468	4471
25°	4415	4361	4331
30°	4279	4206	4127
35°	4104	3984	3853
40°	3866	3700	3505
45°	3604	3387	3135
50°	3278	3038	2768
55°	2983	2694	2413
60°	2675	2373	2144
65°	2386	2114	1969
70°	2170	1927	1906
75°	2027	1877	1971
80°	2038	1940	2052
85°	2127	1988	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	4.2
10°-20°	461.6	11.9
20°-30°	676.7	17.5
30°-40°	755.3	19.5
40°-50°	683.8	17.7
50°-60°	516.3	13.4
60°-70°	337.5	8.7
70°-80°	198.2	5.1
80°-90°	72.6	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°	1301.1	33.7
0°-40°	2056.5	53.2
0°-60°	3256.6	84.3
0°-90°	3865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1719	1716	1708	1718	1717	163
15°	1645	1642	1632	1641	1635	463
25°	1487	1481	1469	1466	1459	684
35°	1249	1238	1213	1186	1173	778
45°	947	933	890	842	824	728
55°	636	621	574	529	514	569
65°	375	363	332	313	309	376
75°	195	190	180	184	190	209
85°	69	66	64	73	74	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.8	1721.8	1721.8	1721.8	1721.8
2.5°	1724.6	1721.8	1713.7	1724.6	1723.6
5°	1719.1	1715.5	1708.2	1718.2	1717.3
7.5°	1708.2	1704.6	1697.3	1706.4	1704.6
10°	1691.9	1688.3	1681.0	1691.0	1686.5
12.5°	1671.0	1667.4	1659.2	1668.3	1664.7
15°	1644.7	1642.0	1632.0	1641.1	1634.7
17.5°	1613.0	1608.4	1601.2	1606.6	1602.1
20°	1577.6	1572.1	1560.4	1565.8	1561.3
22.5°	1535.0	1527.7	1519.5	1519.5	1513.2
25°	1486.9	1481.4	1468.7	1466.0	1458.7
27.5°	1435.2	1430.6	1414.3	1409.8	1397.1
30°	1377.1	1370.8	1353.5	1339.0	1328.1
32.5°	1312.7	1308.2	1284.6	1265.5	1250.1
35°	1249.2	1238.3	1212.9	1185.7	1173.0
37.5°	1174.8	1166.6	1134.9	1101.3	1084.1
40°	1100.4	1090.4	1053.2	1016.0	997.9
42.5°	1019.7	1010.6	975.2	930.8	911.7
45°	947.1	932.6	889.9	841.9	823.7
47.5°	867.3	851.8	806.5	755.7	734.8
50°	782.9	772.9	725.7	676.8	661.3
52.5°	707.6	692.2	647.7	599.6	583.3
55°	635.9	621.4	574.2	528.9	514.4
57.5°	564.3	547.9	507.1	466.3	451.8
60°	497.1	480.8	440.9	407.3	398.3
62.5°	436.4	418.2	382.8	356.5	350.2
65°	374.7	362.9	332.0	313.0	309.3
67.5°	323.0	308.4	283.9	274.9	273.1
70°	275.8	265.8	244.9	242.2	242.2
72.5°	233.1	225.0	209.6	211.4	214.1
75°	195.0	189.6	180.5	184.2	189.6
77.5°	162.4	156.9	151.5	156.9	160.6
80°	131.5	126.1	125.2	129.7	132.4
82.5°	98.9	94.3	95.3	102.5	105.2
85°	68.9	66.2	64.4	72.6	73.5
87.5°	35.4	33.6	32.7	39.0	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)