

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: P290837

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290837
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4155.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

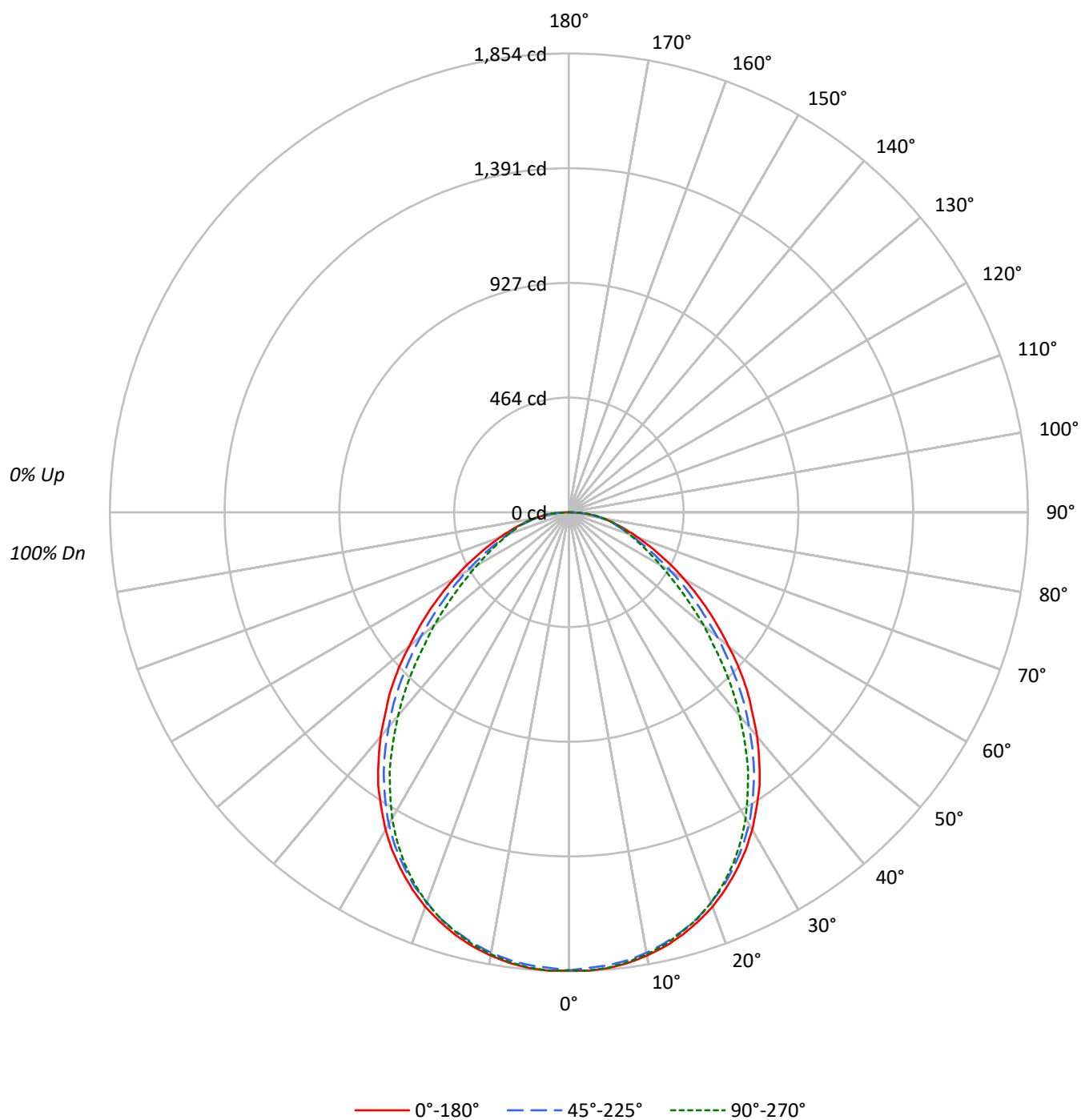
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4981	4981	4981
5°	4992	4961	4987
10°	4970	4938	4954
15°	4926	4888	4896
20°	4857	4804	4806
25°	4746	4688	4656
30°	4600	4521	4437
35°	4412	4283	4142
40°	4156	3978	3769
45°	3875	3641	3370
50°	3523	3266	2977
55°	3208	2896	2594
60°	2876	2551	2304
65°	2565	2273	2118
70°	2333	2072	2049
75°	2180	2018	2119
80°	2191	2086	2207
85°	2288	2137	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	4.2
10°-20°	496.2	11.9
20°-30°	727.5	17.5
30°-40°	812.0	19.5
40°-50°	735.2	17.7
50°-60°	555.1	13.4
60°-70°	362.9	8.7
70°-80°	213.1	5.1
80°-90°	78.0	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°	1398.7	33.7
0°-40°	2210.8	53.2
0°-60°	3501.0	84.3
0°-90°	4155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1848	1844	1836	1847	1846	175
15°	1768	1765	1754	1764	1757	498
25°	1598	1593	1579	1576	1568	735
35°	1343	1331	1304	1275	1261	836
45°	1018	1003	957	905	886	782
55°	684	668	617	569	553	612
65°	403	390	357	336	333	404
75°	210	204	194	198	204	225
85°	74	71	69	78	79	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1854.0	1851.0	1842.2	1854.0	1853.0
5°	1848.1	1844.2	1836.4	1847.1	1846.1
7.5°	1836.4	1832.5	1824.7	1834.4	1832.5
10°	1818.8	1814.9	1807.1	1817.9	1813.0
12.5°	1796.4	1792.5	1783.7	1793.5	1789.6
15°	1768.1	1765.2	1754.5	1764.2	1757.4
17.5°	1734.0	1729.1	1721.3	1727.2	1722.3
20°	1696.0	1690.1	1677.4	1683.3	1678.4
22.5°	1650.1	1642.3	1633.5	1633.5	1626.7
25°	1598.4	1592.6	1578.9	1576.0	1568.2
27.5°	1542.8	1538.0	1520.4	1515.5	1501.9
30°	1480.4	1473.6	1455.1	1439.5	1427.8
32.5°	1411.2	1406.3	1381.0	1360.5	1343.9
35°	1342.9	1331.2	1303.9	1274.7	1261.0
37.5°	1262.9	1254.2	1220.0	1184.0	1165.4
40°	1183.0	1172.3	1132.3	1092.3	1072.8
42.5°	1096.2	1086.4	1048.4	1000.6	980.1
45°	1018.2	1002.6	956.7	905.0	885.5
47.5°	932.3	915.8	867.0	812.4	790.0
50°	841.6	830.9	780.2	727.5	711.0
52.5°	760.7	744.1	696.3	644.6	627.1
55°	683.7	668.0	617.3	568.6	553.0
57.5°	606.6	589.1	545.2	501.3	485.7
60°	534.4	516.9	474.0	437.9	428.1
62.5°	469.1	449.6	411.6	383.3	376.4
65°	402.8	390.1	356.9	336.5	332.6
67.5°	347.2	331.6	305.3	295.5	293.6
70°	296.5	285.7	263.3	260.4	260.4
72.5°	250.6	241.9	225.3	227.2	230.2
75°	209.7	203.8	194.1	198.0	203.8
77.5°	174.6	168.7	162.9	168.7	172.6
80°	141.4	135.6	134.6	139.5	142.4
82.5°	106.3	101.4	102.4	110.2	113.1
85°	74.1	71.2	69.2	78.0	79.0
87.5°	38.0	36.1	35.1	41.9	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)