

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: P290939

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290939
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

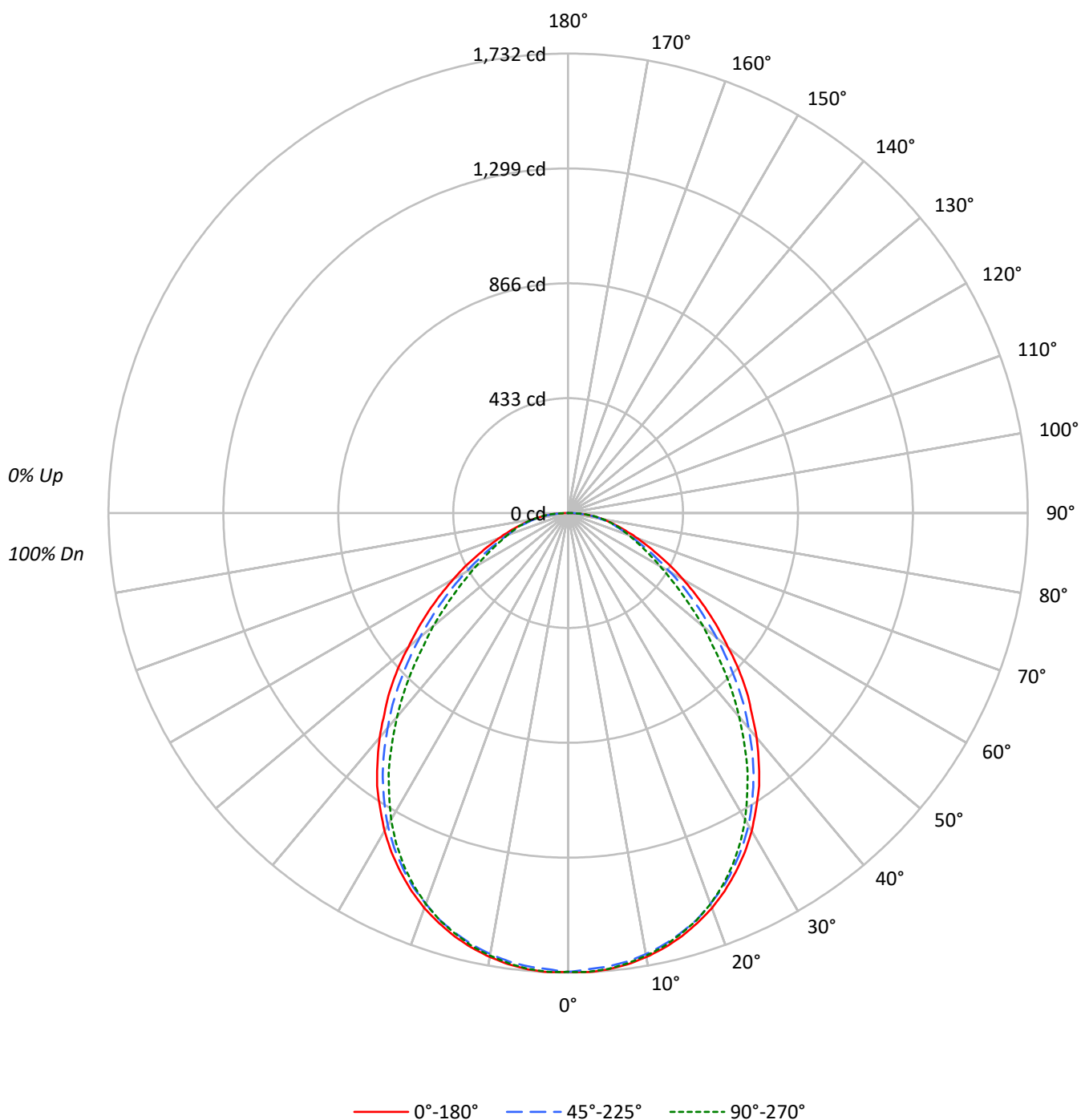
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4654	4654	4654
5°	4664	4635	4659
10°	4643	4614	4629
15°	4602	4567	4574
20°	4538	4488	4491
25°	4434	4380	4350
30°	4298	4224	4145
35°	4122	4002	3870
40°	3883	3716	3521
45°	3620	3402	3148
50°	3292	3051	2781
55°	2997	2706	2424
60°	2687	2383	2153
65°	2396	2124	1978
70°	2179	1936	1914
75°	2037	1885	1980
80°	2047	1948	2061
85°	2137	1998	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	4.2
10°-20°	463.6	11.9
20°-30°	679.7	17.5
30°-40°	758.7	19.5
40°-50°	686.9	17.7
50°-60°	518.6	13.4
60°-70°	339.0	8.7
70°-80°	199.1	5.1
80°-90°	72.9	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°	1306.8	33.7
0°-40°	2065.5	53.2
0°-60°	3271.0	84.3
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1727	1723	1716	1726	1725	164
15°	1652	1649	1639	1648	1642	466
25°	1493	1488	1475	1472	1465	687
35°	1255	1244	1218	1191	1178	781
45°	951	937	894	846	827	731
55°	639	624	577	531	517	571
65°	376	364	334	314	311	378
75°	196	190	181	185	190	210
85°	69	66	65	73	74	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1732.1	1729.4	1721.2	1732.1	1731.2
5°	1726.7	1723.0	1715.7	1725.8	1724.9
7.5°	1715.7	1712.1	1704.8	1713.9	1712.1
10°	1699.3	1695.7	1688.4	1698.4	1693.9
12.5°	1678.4	1674.7	1666.5	1675.6	1672.0
15°	1652.0	1649.2	1639.2	1648.3	1641.9
17.5°	1620.1	1615.5	1608.2	1613.7	1609.1
20°	1584.5	1579.1	1567.2	1572.7	1568.1
22.5°	1541.7	1534.4	1526.2	1526.2	1519.8
25°	1493.4	1487.9	1475.2	1472.5	1465.2
27.5°	1441.5	1436.9	1420.5	1416.0	1403.2
30°	1383.2	1376.8	1359.5	1344.9	1334.0
32.5°	1318.5	1313.9	1290.2	1271.1	1255.6
35°	1254.7	1243.8	1218.2	1190.9	1178.1
37.5°	1180.0	1171.8	1139.9	1106.2	1088.9
40°	1105.3	1095.2	1057.9	1020.5	1002.3
42.5°	1024.2	1015.0	979.5	934.9	915.7
45°	951.3	936.7	893.9	845.6	827.3
47.5°	871.1	855.6	810.0	759.0	738.1
50°	786.3	776.3	728.9	679.7	664.2
52.5°	710.7	695.2	650.6	602.3	585.9
55°	638.7	624.2	576.8	531.2	516.6
57.5°	566.7	550.3	509.3	468.3	453.8
60°	499.3	482.9	442.8	409.1	400.0
62.5°	438.3	420.1	384.5	358.1	351.7
65°	376.3	364.5	333.5	314.4	310.7
67.5°	324.4	309.8	285.2	276.1	274.3
70°	277.0	267.0	246.0	243.3	243.3
72.5°	234.2	226.0	210.5	212.3	215.0
75°	195.9	190.4	181.3	185.0	190.4
77.5°	163.1	157.6	152.2	157.6	161.3
80°	132.1	126.7	125.7	130.3	133.0
82.5°	99.3	94.8	95.7	103.0	105.7
85°	69.2	66.5	64.7	72.9	73.8
87.5°	35.5	33.7	32.8	39.2	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)