

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: P290779

Luminaire Tested: **14GR-LD5-40-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290779
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

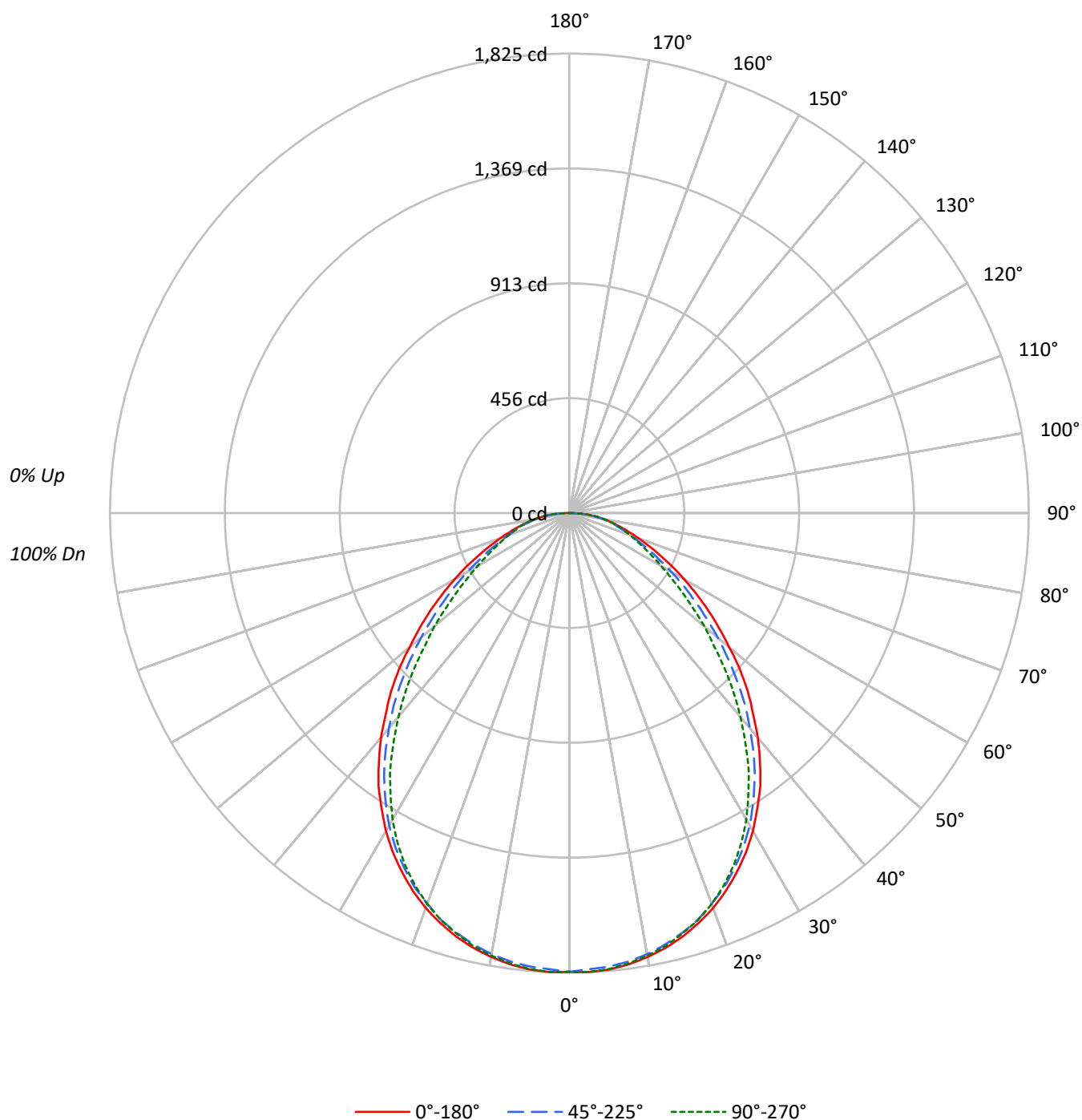
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4903	4903	4903
5°	4914	4883	4909
10°	4892	4861	4876
15°	4849	4811	4819
20°	4781	4729	4731
25°	4672	4615	4584
30°	4528	4451	4367
35°	4343	4216	4078
40°	4091	3915	3710
45°	3814	3584	3317
50°	3468	3215	2930
55°	3157	2851	2554
60°	2831	2511	2268
65°	2525	2238	2085
70°	2296	2039	2017
75°	2146	1986	2086
80°	2157	2053	2173
85°	2254	2106	2402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	4.2
10°-20°	488.4	11.9
20°-30°	716.1	17.5
30°-40°	799.3	19.5
40°-50°	723.7	17.7
50°-60°	546.4	13.4
60°-70°	357.2	8.7
70°-80°	209.8	5.1
80°-90°	76.8	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°	1376.9	33.7
0°-40°	2176.2	53.2
0°-60°	3446.2	84.3
0°-90°	4090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1819	1815	1808	1818	1817	173
15°	1740	1738	1727	1737	1730	490
25°	1573	1568	1554	1551	1544	724
35°	1322	1310	1284	1255	1241	823
45°	1002	987	942	891	872	770
55°	673	658	608	560	544	602
65°	396	384	351	331	327	398
75°	206	201	191	195	201	222
85°	73	70	68	77	78	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1824.9	1822.1	1813.4	1824.9	1824.0
5°	1819.2	1815.3	1807.7	1818.2	1817.3
7.5°	1807.7	1803.8	1796.1	1805.7	1803.8
10°	1790.4	1786.5	1778.9	1789.4	1784.6
12.5°	1768.3	1764.5	1755.8	1765.4	1761.6
15°	1740.5	1737.6	1727.0	1736.6	1729.9
17.5°	1706.9	1702.1	1694.4	1700.1	1695.3
20°	1669.4	1663.7	1651.2	1657.0	1652.2
22.5°	1624.3	1616.6	1608.0	1608.0	1601.3
25°	1573.4	1567.7	1554.2	1551.4	1543.7
27.5°	1518.7	1513.9	1496.6	1491.8	1478.4
30°	1457.3	1450.6	1432.3	1417.0	1405.4
32.5°	1389.1	1384.3	1359.4	1339.2	1322.9
35°	1321.9	1310.4	1283.5	1254.7	1241.3
37.5°	1243.2	1234.6	1201.0	1165.4	1147.2
40°	1164.5	1153.9	1114.6	1075.2	1056.0
42.5°	1079.0	1069.4	1032.0	985.0	964.8
45°	1002.2	986.9	941.8	890.9	871.7
47.5°	917.8	901.4	853.4	799.7	777.6
50°	828.5	817.9	768.0	716.2	699.8
52.5°	748.8	732.5	685.4	634.6	617.3
55°	673.0	657.6	607.7	559.7	544.3
57.5°	597.1	579.8	536.6	493.4	478.1
60°	526.1	508.8	466.6	431.0	421.4
62.5°	461.8	442.6	405.1	377.3	370.6
65°	396.5	384.0	351.4	331.2	327.4
67.5°	341.8	326.4	300.5	290.9	289.0
70°	291.8	281.3	259.2	256.3	256.3
72.5°	246.7	238.1	221.8	223.7	226.6
75°	206.4	200.6	191.0	194.9	200.6
77.5°	171.8	166.1	160.3	166.1	169.9
80°	139.2	133.4	132.5	137.3	140.2
82.5°	104.6	99.8	100.8	108.5	111.4
85°	73.0	70.1	68.2	76.8	77.8
87.5°	37.4	35.5	34.6	41.3	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)