

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: P290774

Luminaire Tested: **14GR-LD5-36-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290774
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-LD5-36-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: 3655.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

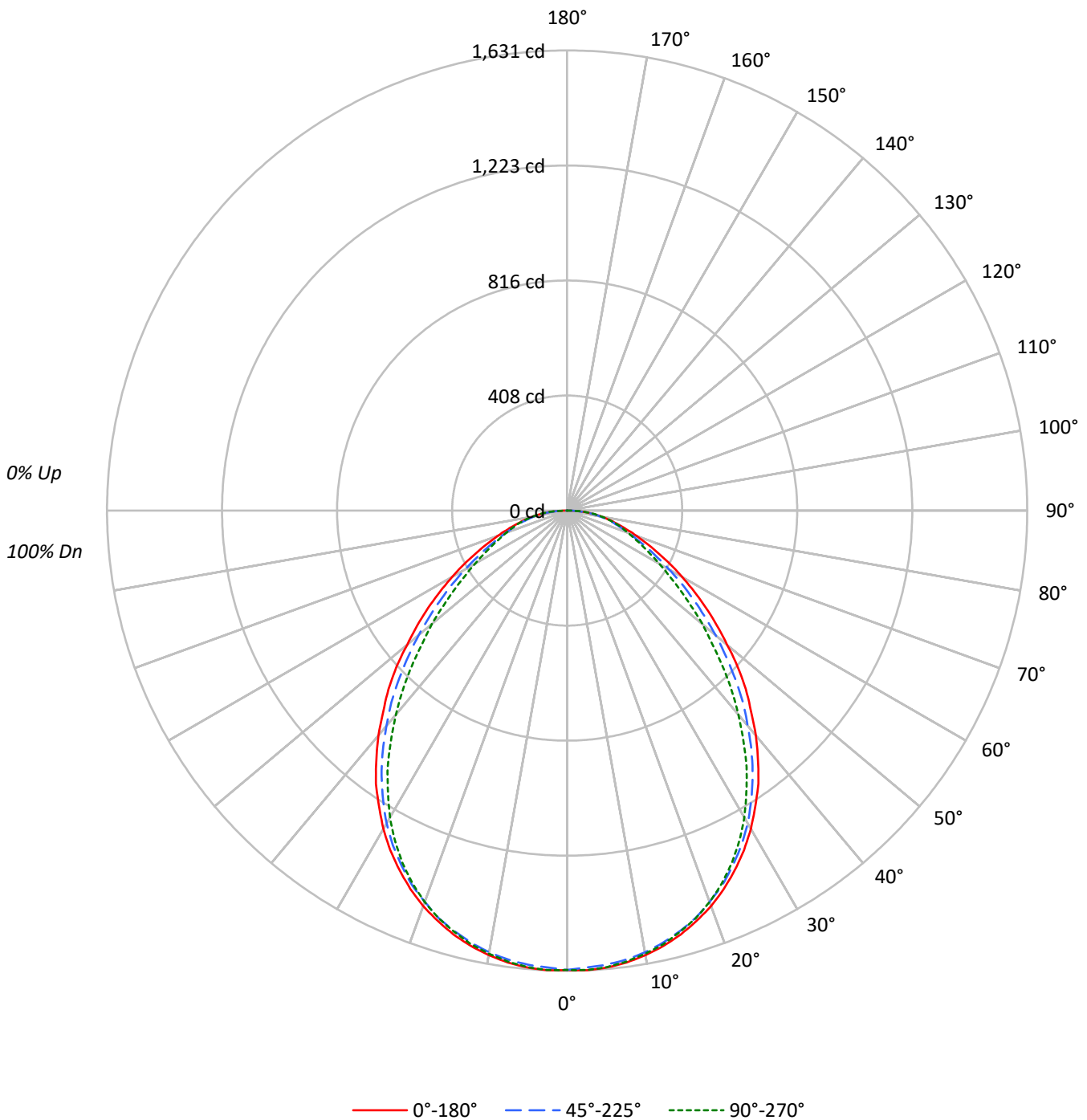
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4382	4382	4382
5°	4391	4364	4387
10°	4372	4344	4358
15°	4333	4299	4307
20°	4272	4226	4228
25°	4175	4124	4096
30°	4047	3977	3903
35°	3881	3768	3644
40°	3655	3499	3315
45°	3408	3203	2965
50°	3100	2873	2618
55°	2822	2548	2282
60°	2530	2244	2027
65°	2256	1999	1862
70°	2052	1822	1803
75°	1917	1775	1864
80°	1928	1835	1942
85°	2013	1880	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	4.2
10°-20°	436.5	11.9
20°-30°	640.0	17.5
30°-40°	714.3	19.5
40°-50°	646.7	17.7
50°-60°	488.3	13.4
60°-70°	319.2	8.7
70°-80°	187.5	5.1
80°-90°	68.6	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°	1230.4	33.7
0°-40°	1944.7	53.2
0°-60°	3079.7	84.3
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1626	1622	1615	1625	1624	154
15°	1555	1553	1543	1552	1546	438
25°	1406	1401	1389	1386	1380	647
35°	1181	1171	1147	1121	1109	736
45°	896	882	842	796	779	688
55°	601	588	543	500	486	538
65°	354	343	314	296	292	355
75°	184	179	171	174	179	198
85°	65	63	61	69	70	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.3	1628.3	1628.3	1628.3	1628.3
2.5°	1630.9	1628.3	1620.6	1630.9	1630.0
5°	1625.7	1622.3	1615.4	1624.8	1624.0
7.5°	1615.4	1612.0	1605.1	1613.7	1612.0
10°	1600.0	1596.5	1589.7	1599.1	1594.8
12.5°	1580.2	1576.8	1569.1	1577.7	1574.2
15°	1555.4	1552.8	1543.3	1551.9	1545.9
17.5°	1525.3	1521.0	1514.2	1519.3	1515.0
20°	1491.9	1486.7	1475.6	1480.7	1476.4
22.5°	1451.6	1444.7	1437.0	1437.0	1431.0
25°	1406.1	1400.9	1388.9	1386.4	1379.5
27.5°	1357.2	1352.9	1337.5	1333.2	1321.2
30°	1302.3	1296.3	1280.0	1266.2	1256.0
32.5°	1241.4	1237.1	1214.8	1196.8	1182.2
35°	1181.3	1171.0	1147.0	1121.3	1109.3
37.5°	1111.0	1103.2	1073.2	1041.5	1025.2
40°	1040.6	1031.2	996.0	960.8	943.7
42.5°	964.3	955.7	922.2	880.2	862.2
45°	895.6	881.9	841.6	796.1	779.0
47.5°	820.1	805.6	762.7	714.6	694.9
50°	740.4	730.9	686.3	640.0	625.4
52.5°	669.2	654.6	612.5	567.1	551.6
55°	601.4	587.7	543.0	500.2	486.4
57.5°	533.6	518.2	479.6	441.0	427.2
60°	470.1	454.7	416.9	385.2	376.6
62.5°	412.6	395.5	362.0	337.2	331.1
65°	354.3	343.2	314.0	296.0	292.5
67.5°	305.4	291.7	268.5	259.9	258.2
70°	260.8	251.4	231.6	229.1	229.1
72.5°	220.5	212.8	198.2	199.9	202.5
75°	184.4	179.3	170.7	174.2	179.3
77.5°	153.6	148.4	143.3	148.4	151.8
80°	124.4	119.2	118.4	122.7	125.3
82.5°	93.5	89.2	90.1	96.9	99.5
85°	65.2	62.6	60.9	68.6	69.5
87.5°	33.5	31.7	30.9	36.9	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)