

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: P290582

Luminaire Tested: **14GR-LD5-40-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 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): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

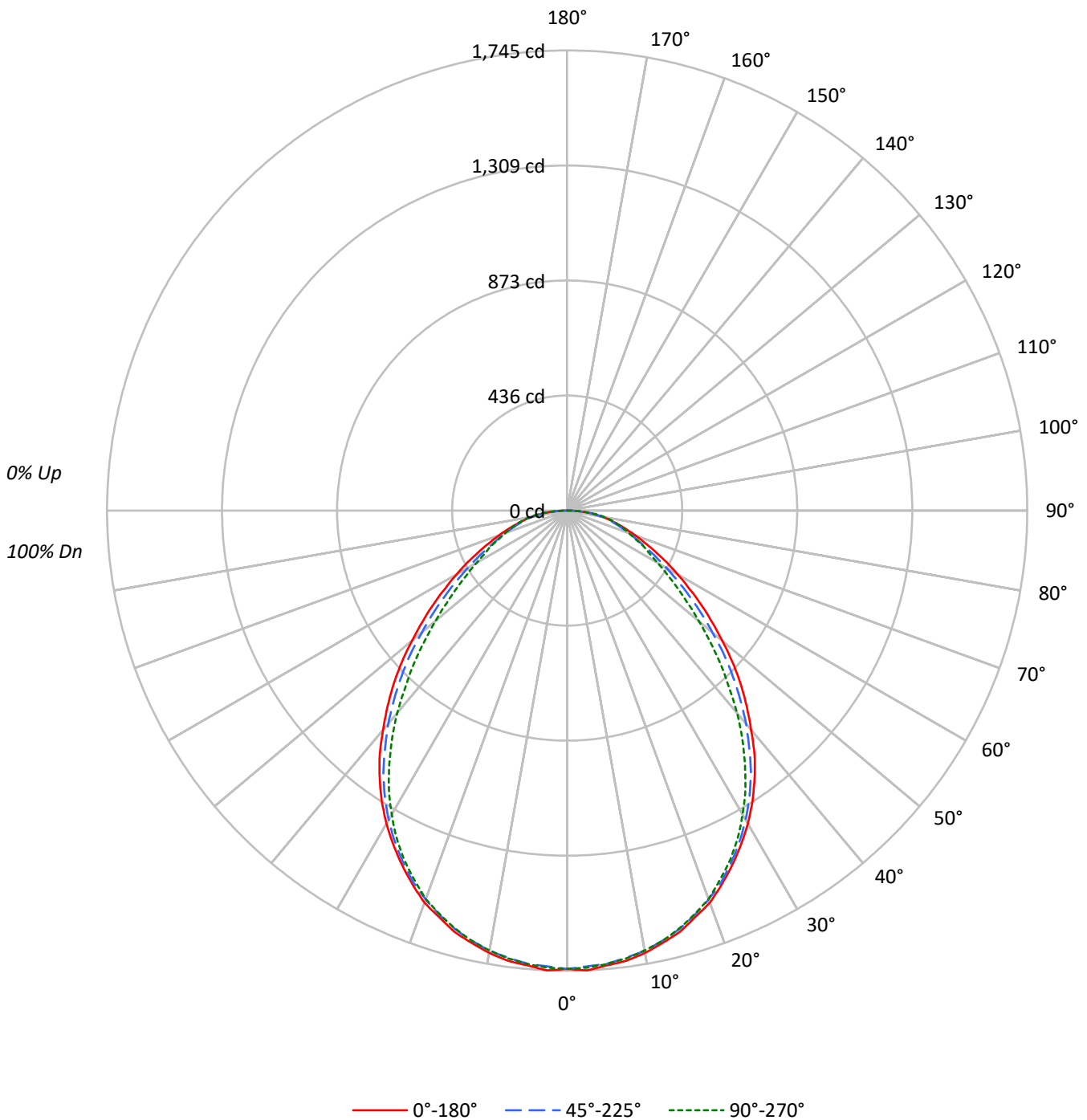
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	87	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	57	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	61	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	52	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4677	4677	4677
5°	4676	4659	4662
10°	4653	4631	4629
15°	4605	4578	4571
20°	4531	4493	4488
25°	4401	4372	4340
30°	4259	4206	4135
35°	4072	3993	3862
40°	3812	3706	3523
45°	3540	3382	3135
50°	3212	3012	2730
55°	2905	2660	2386
60°	2608	2331	2126
65°	2341	2082	2036
70°	2161	1938	1958
75°	2063	1943	2054
80°	2087	2073	2238
85°	2161	2133	2381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	4.2
10°-20°	463.9	12.0
20°-30°	677.5	17.5
30°-40°	754.9	19.5
40°-50°	680.2	17.6
50°-60°	508.4	13.2
60°-70°	335.4	8.7
70°-80°	204.7	5.3
80°-90°	76.0	2.0
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°	1305.4	33.8
0°-40°	2060.3	53.3
0°-60°	3248.9	84.1
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°	1738	1738	1738	1738	1738	
5°	1731	1729	1725	1734	1726	165
15°	1653	1647	1643	1653	1641	465
25°	1482	1477	1472	1475	1462	682
35°	1239	1229	1216	1194	1176	773
45°	930	920	889	848	824	716
55°	619	610	567	520	508	555
65°	368	356	327	314	320	369
75°	198	195	187	193	198	212
85°	70	67	69	76	77	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1745.3	1737.3	1730.2	1740.8	1734.6
5°	1731.1	1729.3	1724.9	1733.8	1725.8
7.5°	1722.2	1716.0	1710.7	1721.4	1712.5
10°	1702.8	1699.2	1694.8	1703.6	1693.9
12.5°	1678.8	1675.3	1670.9	1681.5	1670.9
15°	1653.1	1646.9	1643.4	1653.1	1640.7
17.5°	1615.9	1613.3	1608.0	1617.7	1605.3
20°	1582.3	1572.5	1569.0	1576.1	1567.2
22.5°	1533.5	1526.5	1525.6	1530.0	1514.9
25°	1482.2	1476.8	1472.4	1475.1	1461.8
27.5°	1428.1	1421.0	1415.7	1414.8	1400.7
30°	1370.5	1361.7	1353.7	1346.6	1330.7
32.5°	1307.6	1297.0	1286.4	1274.8	1258.0
35°	1239.4	1228.8	1215.5	1194.2	1175.6
37.5°	1167.7	1155.2	1134.0	1109.2	1090.6
40°	1085.3	1079.1	1055.1	1023.2	1002.9
42.5°	1008.2	1001.1	971.0	935.5	908.1
45°	930.2	920.5	888.6	847.8	823.9
47.5°	850.5	840.7	805.3	754.8	733.5
50°	767.2	761.9	719.4	673.3	652.0
52.5°	691.0	684.8	641.4	595.3	575.9
55°	619.3	609.5	567.0	520.0	508.5
57.5°	547.5	536.9	497.0	457.1	449.2
60°	484.6	471.3	433.2	402.2	395.1
62.5°	425.2	410.2	378.3	354.4	350.8
65°	367.7	356.1	326.9	313.6	319.8
67.5°	318.0	306.5	285.3	280.0	278.2
70°	274.6	264.0	246.3	248.1	248.9
72.5°	234.8	228.6	215.3	219.7	223.3
75°	198.4	194.9	186.9	193.1	197.6
77.5°	165.7	163.0	159.5	164.8	171.9
80°	134.7	132.9	133.8	137.3	144.4
82.5°	103.7	100.1	102.8	109.9	114.3
85°	70.0	67.3	69.1	76.2	77.1
87.5°	32.8	32.8	31.9	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)