

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: P290581

Luminaire Tested: **14GR-LD5-36-F1-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290581
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-LD5-36-F1-UNV-L83050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

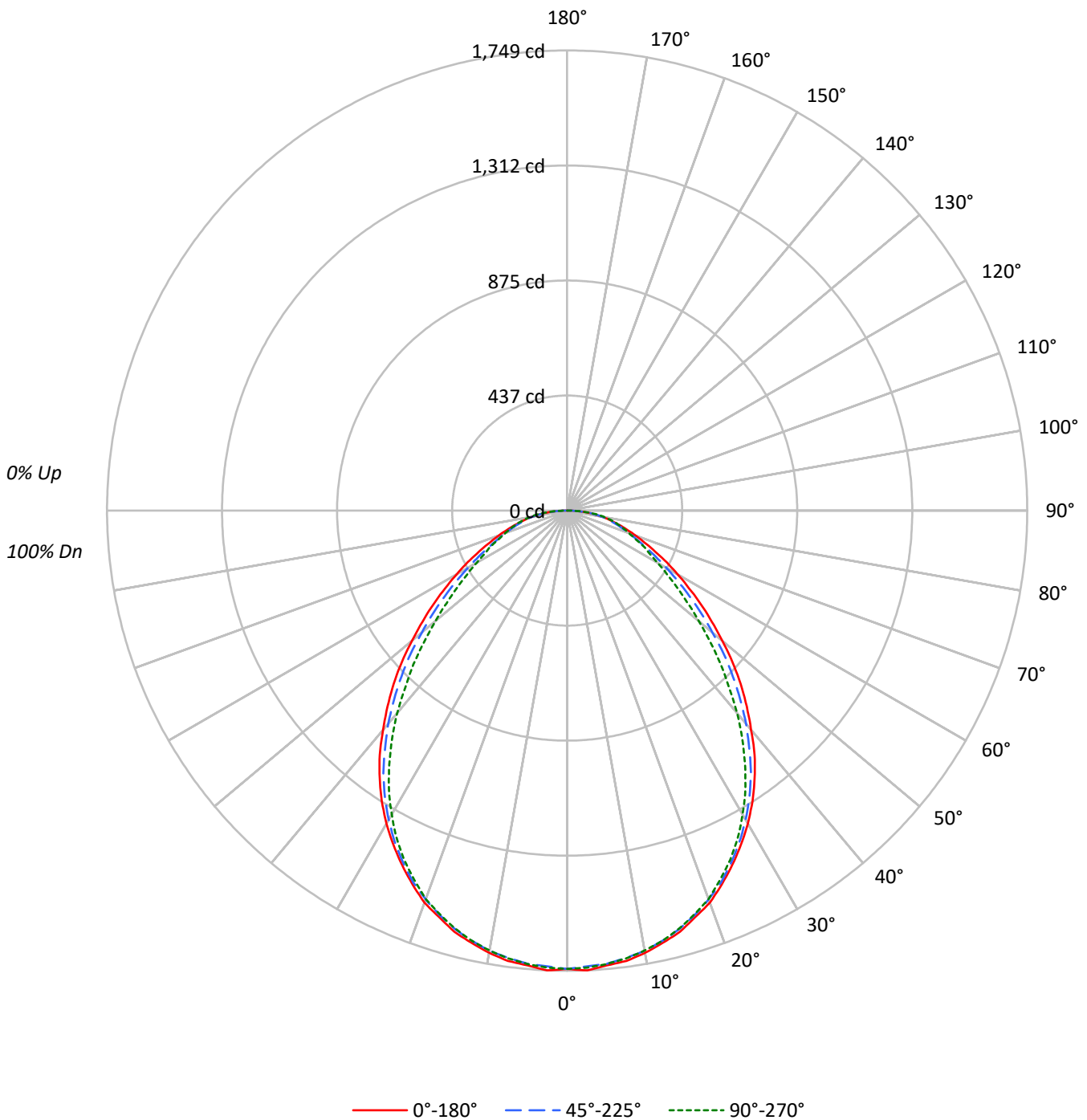
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4688	4688	4688
5°	4687	4670	4673
10°	4664	4642	4639
15°	4616	4589	4582
20°	4542	4503	4499
25°	4411	4382	4350
30°	4268	4216	4144
35°	4081	4002	3871
40°	3821	3715	3531
45°	3548	3390	3143
50°	3219	3018	2736
55°	2912	2666	2391
60°	2614	2337	2131
65°	2346	2087	2041
70°	2166	1943	1963
75°	2068	1948	2059
80°	2092	2078	2242
85°	2167	2140	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	4.2
10°-20°	465.0	12.0
20°-30°	679.0	17.5
30°-40°	756.6	19.5
40°-50°	681.8	17.6
50°-60°	509.6	13.2
60°-70°	336.2	8.7
70°-80°	205.2	5.3
80°-90°	76.1	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°	1308.5	33.8
0°-40°	2065.1	53.3
0°-60°	3256.5	84.1
0°-90°	3874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1735	1733	1729	1738	1730	165
15°	1657	1651	1647	1657	1645	466
25°	1486	1480	1476	1478	1465	684
35°	1242	1232	1218	1197	1178	775
45°	932	923	891	850	826	718
55°	621	611	568	521	510	556
65°	368	357	328	314	321	369
75°	199	195	187	194	198	212
85°	70	68	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°	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1749.3	1741.3	1734.2	1744.9	1738.7
5°	1735.1	1733.4	1728.9	1737.8	1729.8
7.5°	1726.3	1720.0	1714.7	1725.4	1716.5
10°	1706.7	1703.2	1698.7	1707.6	1697.8
12.5°	1682.7	1679.2	1674.7	1685.4	1674.7
15°	1657.0	1650.8	1647.2	1657.0	1644.6
17.5°	1619.7	1617.0	1611.7	1621.5	1609.0
20°	1585.9	1576.2	1572.6	1579.7	1570.9
22.5°	1537.1	1530.0	1529.1	1533.6	1518.5
25°	1485.6	1480.3	1475.8	1478.5	1465.2
27.5°	1431.4	1424.3	1419.0	1418.1	1403.9
30°	1373.7	1364.8	1356.8	1349.7	1333.8
32.5°	1310.7	1300.0	1289.4	1277.8	1260.9
35°	1242.3	1231.6	1218.3	1197.0	1178.4
37.5°	1170.4	1157.9	1136.6	1111.8	1093.1
40°	1087.8	1081.6	1057.6	1025.6	1005.2
42.5°	1010.5	1003.4	973.2	937.7	910.2
45°	932.4	922.6	890.7	849.8	825.8
47.5°	852.5	842.7	807.2	756.6	735.3
50°	769.0	763.7	721.0	674.9	653.6
52.5°	692.6	686.4	642.9	596.7	577.2
55°	620.7	610.9	568.3	521.2	509.7
57.5°	548.8	538.1	498.2	458.2	450.2
60°	485.7	472.4	434.2	403.1	396.0
62.5°	426.2	411.1	379.2	355.2	351.6
65°	368.5	357.0	327.7	314.3	320.6
67.5°	318.8	307.2	285.9	280.6	278.8
70°	275.3	264.6	246.9	248.6	249.5
72.5°	235.3	229.1	215.8	220.2	223.8
75°	198.9	195.4	187.4	193.6	198.0
77.5°	166.1	163.4	159.8	165.2	172.3
80°	135.0	133.2	134.1	137.6	144.7
82.5°	103.9	100.3	103.0	110.1	114.6
85°	70.2	67.5	69.3	76.4	77.3
87.5°	32.9	32.9	32.0	37.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)