

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: P290629

Luminaire Tested: **14GR-LD5-36-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290629
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-L82765-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: 3451.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

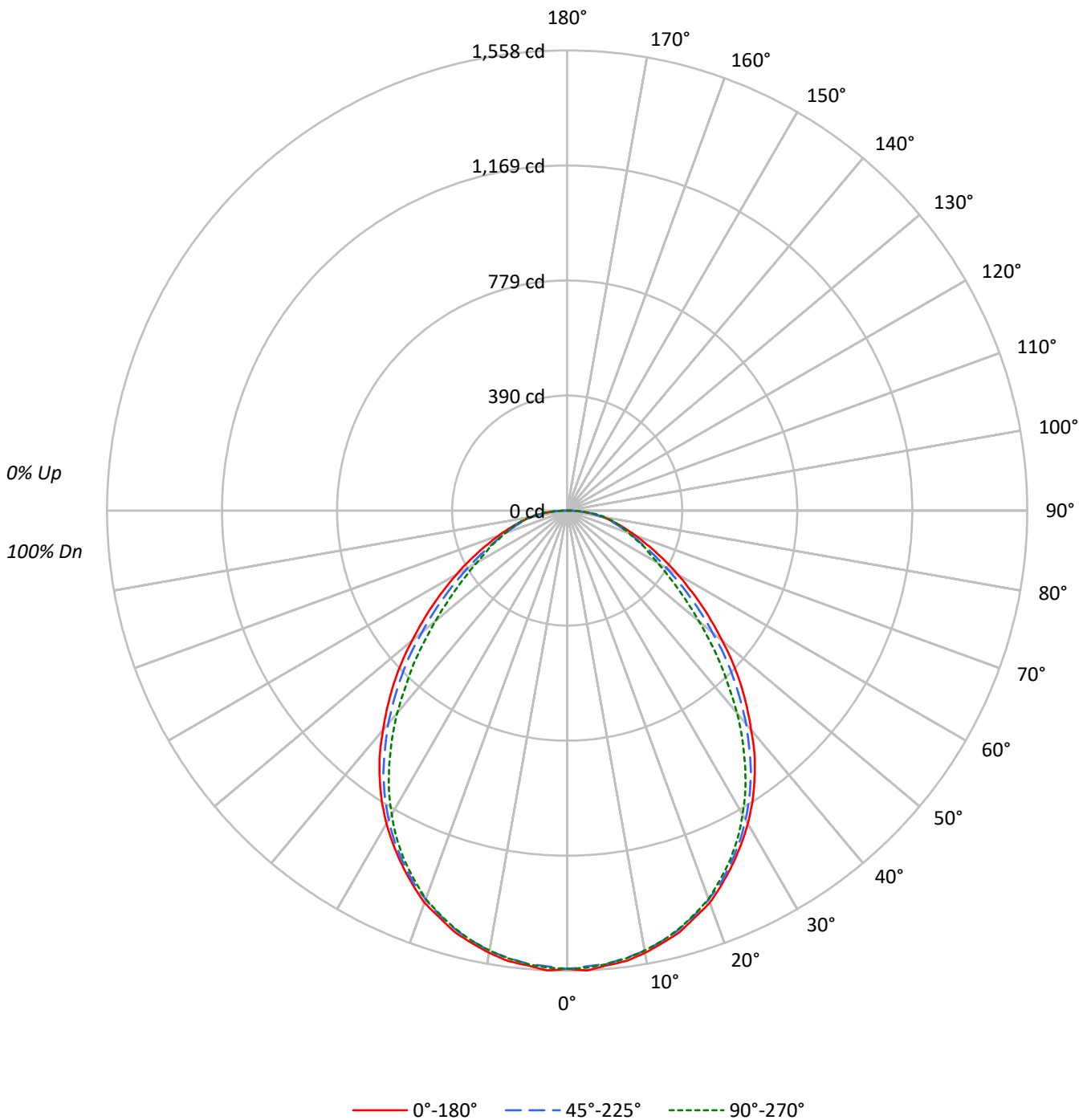
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4176	4176	4176
5°	4175	4160	4162
10°	4154	4135	4133
15°	4112	4088	4081
20°	4046	4012	4007
25°	3929	3904	3875
30°	3802	3756	3692
35°	3636	3565	3448
40°	3404	3309	3145
45°	3161	3019	2800
50°	2868	2689	2437
55°	2594	2375	2130
60°	2329	2082	1899
65°	2090	1859	1819
70°	1929	1730	1749
75°	1842	1735	1834
80°	1863	1850	1998
85°	1930	1905	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	4.2
10°-20°	414.2	12.0
20°-30°	604.9	17.5
30°-40°	674.0	19.5
40°-50°	607.3	17.6
50°-60°	454.0	13.2
60°-70°	299.5	8.7
70°-80°	182.8	5.3
80°-90°	67.8	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°	1165.6	33.8
0°-40°	1839.6	53.3
0°-60°	2900.9	84.1
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1546	1544	1540	1548	1541	147
15°	1476	1470	1467	1476	1465	415
25°	1323	1319	1315	1317	1305	609
35°	1107	1097	1085	1066	1050	690
45°	831	822	793	757	736	639
55°	553	544	506	464	454	495
65°	328	318	292	280	286	329
75°	177	174	167	172	176	189
85°	62	60	62	68	69	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.0	1552.0	1552.0	1552.0	1552.0
2.5°	1558.3	1551.2	1544.9	1554.4	1548.8
5°	1545.7	1544.1	1540.1	1548.0	1540.9
7.5°	1537.8	1532.2	1527.5	1537.0	1529.1
10°	1520.4	1517.2	1513.2	1521.2	1512.5
12.5°	1499.0	1495.8	1491.9	1501.4	1491.9
15°	1476.1	1470.5	1467.4	1476.1	1465.0
17.5°	1442.8	1440.5	1435.7	1444.4	1433.3
20°	1412.8	1404.1	1400.9	1407.2	1399.3
22.5°	1369.3	1362.9	1362.2	1366.1	1352.7
25°	1323.4	1318.6	1314.7	1317.1	1305.2
27.5°	1275.1	1268.8	1264.1	1263.3	1250.6
30°	1223.7	1215.8	1208.7	1202.4	1188.1
32.5°	1167.6	1158.1	1148.6	1138.3	1123.3
35°	1106.7	1097.2	1085.3	1066.3	1049.7
37.5°	1042.6	1031.5	1012.5	990.4	973.8
40°	969.0	963.5	942.1	913.6	895.4
42.5°	900.2	893.9	867.0	835.3	810.8
45°	830.6	821.9	793.4	757.0	735.7
47.5°	759.4	750.7	719.0	674.0	655.0
50°	685.0	680.3	642.3	601.2	582.2
52.5°	617.0	611.5	572.7	531.6	514.2
55°	552.9	544.2	506.3	464.3	454.1
57.5°	488.9	479.4	443.8	408.2	401.1
60°	432.7	420.8	386.8	359.1	352.8
62.5°	379.7	366.2	337.8	316.4	313.2
65°	328.3	318.0	291.9	280.0	285.6
67.5°	284.0	273.7	254.7	250.0	248.4
70°	245.2	235.7	219.9	221.5	222.3
72.5°	209.6	204.1	192.2	196.2	199.3
75°	177.2	174.0	166.9	172.4	176.4
77.5°	147.9	145.5	142.4	147.1	153.5
80°	120.2	118.7	119.4	122.6	128.9
82.5°	92.6	89.4	91.8	98.1	102.0
85°	62.5	60.1	61.7	68.0	68.8
87.5°	29.3	29.3	28.5	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)