

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: P290613

Luminaire Tested: **14GR-LD5-28-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290613
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-LD5-28-F1-UNV-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

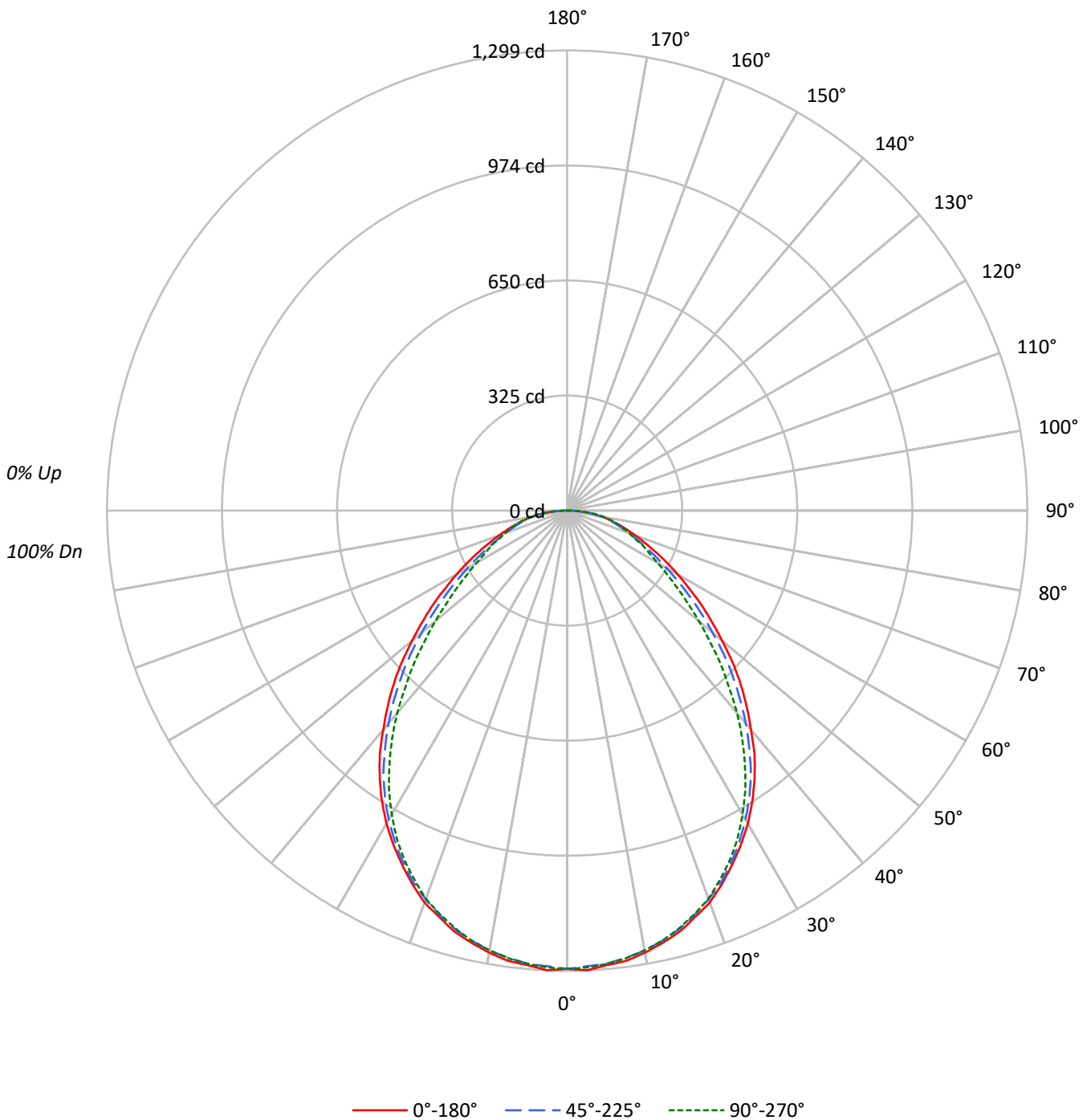
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3481	3481	3481
5°	3479	3467	3469
10°	3462	3446	3444
15°	3427	3407	3401
20°	3372	3343	3340
25°	3275	3253	3230
30°	3169	3130	3077
35°	3030	2971	2874
40°	2837	2758	2621
45°	2634	2516	2333
50°	2390	2241	2031
55°	2162	1979	1775
60°	1941	1735	1582
65°	1742	1549	1515
70°	1608	1442	1457
75°	1536	1446	1528
80°	1553	1542	1666
85°	1609	1587	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	4.2
10°-20°	345.2	12.0
20°-30°	504.1	17.5
30°-40°	561.7	19.5
40°-50°	506.1	17.6
50°-60°	378.3	13.2
60°-70°	249.6	8.7
70°-80°	152.4	5.3
80°-90°	56.5	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°	971.4	33.8
0°-40°	1533.1	53.3
0°-60°	2417.6	84.1
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1288	1287	1284	1290	1284	122
15°	1230	1226	1223	1230	1221	346
25°	1103	1099	1096	1098	1088	508
35°	922	914	904	889	875	575
45°	692	685	661	631	613	533
55°	461	454	422	387	378	413
65°	274	265	243	233	238	274
75°	148	145	139	144	147	158
85°	52	50	51	57	57	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1298.7	1292.8	1287.5	1295.4	1290.8
5°	1288.1	1286.8	1283.5	1290.1	1284.2
7.5°	1281.5	1276.9	1273.0	1280.9	1274.3
10°	1267.0	1264.4	1261.1	1267.7	1260.4
12.5°	1249.2	1246.6	1243.3	1251.2	1243.3
15°	1230.1	1225.5	1222.9	1230.1	1220.9
17.5°	1202.4	1200.5	1196.5	1203.8	1194.5
20°	1177.4	1170.1	1167.5	1172.8	1166.2
22.5°	1141.1	1135.9	1135.2	1138.5	1127.3
25°	1102.9	1098.9	1095.6	1097.6	1087.7
27.5°	1062.7	1057.4	1053.5	1052.8	1042.2
30°	1019.8	1013.2	1007.3	1002.0	990.2
32.5°	973.0	965.1	957.2	948.6	936.1
35°	922.3	914.4	904.5	888.6	874.8
37.5°	868.9	859.6	843.8	825.4	811.5
40°	807.6	802.9	785.1	761.4	746.2
42.5°	750.2	744.9	722.5	696.1	675.7
45°	692.2	684.9	661.2	630.9	613.1
47.5°	632.9	625.6	599.2	561.7	545.8
50°	570.9	566.9	535.3	501.0	485.2
52.5°	514.2	509.6	477.3	443.0	428.5
55°	460.8	453.6	421.9	387.0	378.4
57.5°	407.4	399.5	369.8	340.2	334.2
60°	360.6	350.7	322.4	299.3	294.0
62.5°	316.4	305.2	281.5	263.7	261.1
65°	273.6	265.0	243.3	233.4	238.0
67.5°	236.7	228.1	212.3	208.3	207.0
70°	204.4	196.5	183.3	184.6	185.2
72.5°	174.7	170.1	160.2	163.5	166.1
75°	147.7	145.0	139.1	143.7	147.0
77.5°	123.3	121.3	118.7	122.6	127.9
80°	100.2	98.9	99.5	102.2	107.5
82.5°	77.1	74.5	76.5	81.7	85.0
85°	52.1	50.1	51.4	56.7	57.4
87.5°	24.4	24.4	23.7	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)