

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: P290574

Luminaire Tested: **14GR-LD5-32-F1-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290574
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-LD5-32-F1-UNV-L83050-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: 3434.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

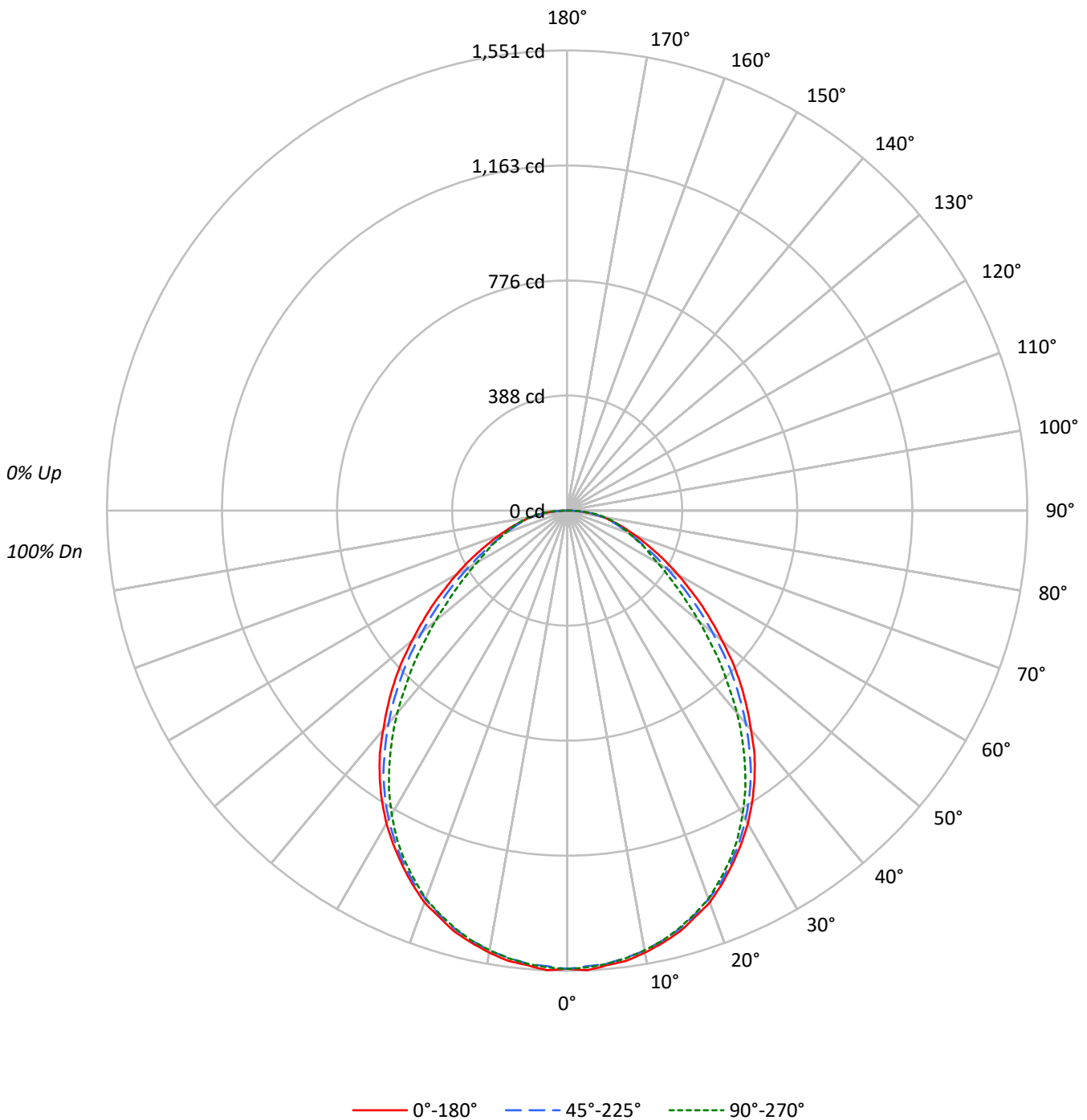
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4156	4156	4156
5°	4155	4140	4142
10°	4134	4115	4112
15°	4092	4068	4061
20°	4026	3992	3987
25°	3910	3884	3856
30°	3784	3737	3674
35°	3618	3548	3431
40°	3387	3293	3130
45°	3145	3005	2786
50°	2854	2676	2425
55°	2581	2364	2120
60°	2317	2072	1890
65°	2080	1850	1810
70°	1920	1721	1740
75°	1833	1727	1825
80°	1853	1843	1988
85°	1920	1896	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	4.2
10°-20°	412.2	12.0
20°-30°	601.9	17.5
30°-40°	670.7	19.5
40°-50°	604.3	17.6
50°-60°	451.7	13.2
60°-70°	298.0	8.7
70°-80°	181.9	5.3
80°-90°	67.5	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°	1159.9	33.8
0°-40°	1830.6	53.3
0°-60°	2886.6	84.1
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1538	1536	1532	1540	1533	146
15°	1469	1463	1460	1469	1458	413
25°	1317	1312	1308	1311	1299	606
35°	1101	1092	1080	1061	1044	687
45°	826	818	790	753	732	636
55°	550	542	504	462	452	493
65°	327	316	290	279	284	327
75°	176	173	166	172	176	188
85°	62	60	61	68	68	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1550.7	1543.6	1537.3	1546.7	1541.2
5°	1538.1	1536.5	1532.5	1540.4	1533.3
7.5°	1530.2	1524.7	1520.0	1529.4	1521.5
10°	1512.9	1509.7	1505.8	1513.7	1505.0
12.5°	1491.6	1488.5	1484.5	1494.0	1484.5
15°	1468.8	1463.3	1460.1	1468.8	1457.8
17.5°	1435.7	1433.4	1428.6	1437.3	1426.3
20°	1405.8	1397.2	1394.0	1400.3	1392.4
22.5°	1362.5	1356.2	1355.4	1359.4	1346.0
25°	1316.9	1312.2	1308.2	1310.6	1298.8
27.5°	1268.9	1262.6	1257.8	1257.1	1244.5
30°	1217.7	1209.8	1202.7	1196.4	1182.3
32.5°	1161.8	1152.4	1142.9	1132.7	1117.7
35°	1101.2	1091.8	1079.9	1061.1	1044.5
37.5°	1037.4	1026.4	1007.5	985.5	969.0
40°	964.2	958.7	937.5	909.1	891.0
42.5°	895.8	889.5	862.7	831.2	806.8
45°	826.5	817.8	789.5	753.3	732.0
47.5°	755.6	747.0	715.5	670.6	651.7
50°	681.7	676.9	639.2	598.2	579.3
52.5°	614.0	608.5	569.9	529.0	511.6
55°	550.2	541.5	503.8	462.0	451.8
57.5°	486.4	477.0	441.6	406.2	399.1
60°	430.6	418.8	384.9	357.4	351.1
62.5°	377.8	364.4	336.1	314.9	311.7
65°	326.7	316.4	290.5	278.6	284.2
67.5°	282.6	272.3	253.5	248.7	247.2
70°	244.0	234.6	218.8	220.4	221.2
72.5°	208.6	203.1	191.3	195.2	198.4
75°	176.3	173.2	166.1	171.6	175.5
77.5°	147.2	144.8	141.7	146.4	152.7
80°	119.6	118.1	118.9	122.0	128.3
82.5°	92.1	88.9	91.3	97.6	101.5
85°	62.2	59.8	61.4	67.7	68.5
87.5°	29.1	29.1	28.3	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)