

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: P290827

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

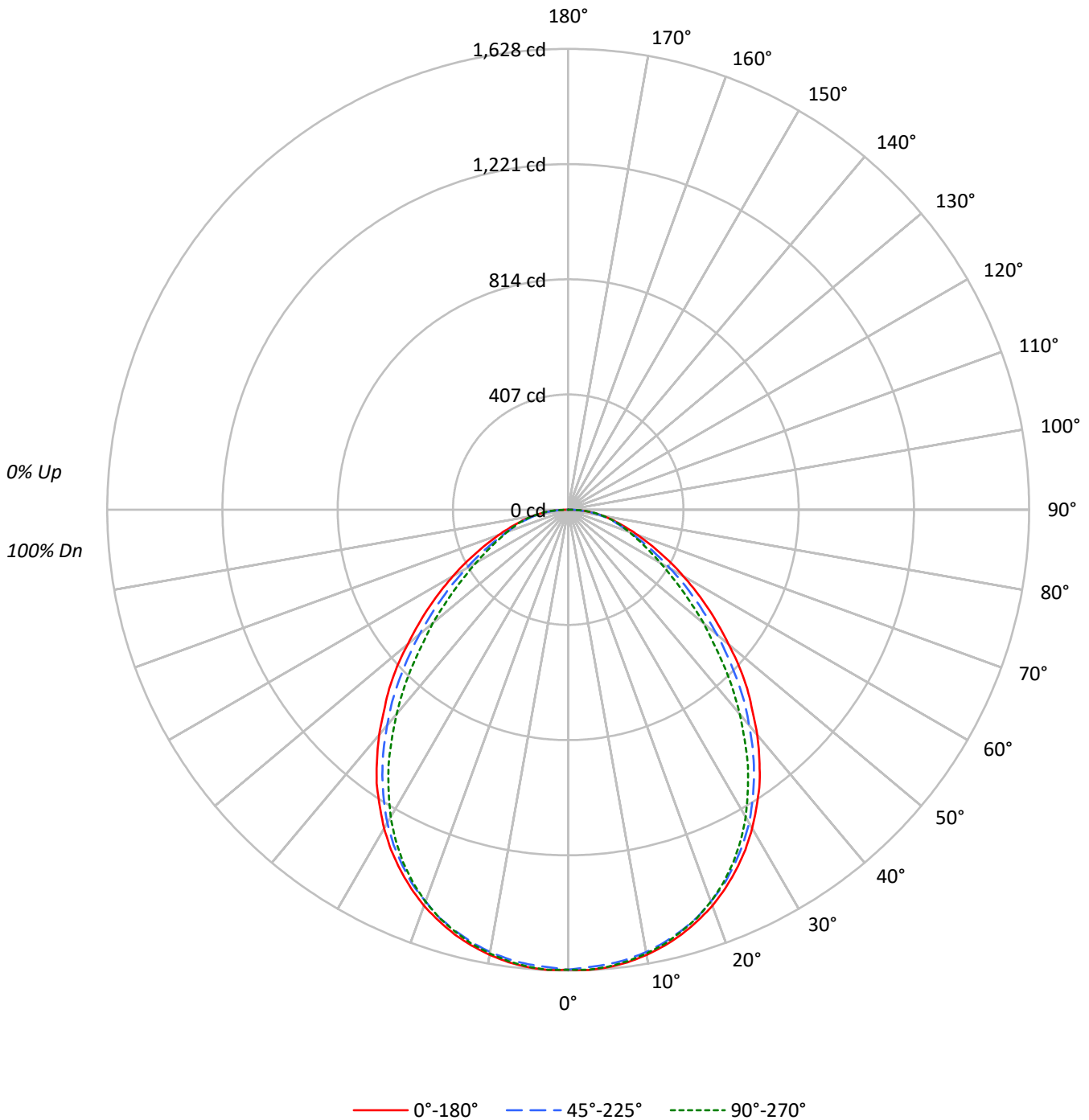
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	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	58	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	60	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	51	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	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4373	4373	4373
5°	4383	4355	4378
10°	4364	4335	4350
15°	4325	4291	4299
20°	4264	4217	4220
25°	4167	4116	4088
30°	4039	3970	3895
35°	3873	3761	3637
40°	3648	3492	3309
45°	3402	3197	2959
50°	3093	2868	2613
55°	2816	2543	2278
60°	2525	2239	2023
65°	2252	1996	1859
70°	2048	1819	1799
75°	1914	1772	1861
80°	1925	1832	1937
85°	2010	1877	2143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	4.2
10°-20°	435.6	11.9
20°-30°	638.7	17.5
30°-40°	712.9	19.5
40°-50°	645.5	17.7
50°-60°	487.4	13.4
60°-70°	318.6	8.7
70°-80°	187.1	5.1
80°-90°	68.5	1.9
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°	1228.1	33.7
0°-40°	1941.0	53.2
0°-60°	3073.8	84.3
0°-90°	3648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1623	1619	1612	1622	1621	154
15°	1552	1550	1540	1549	1543	437
25°	1403	1398	1386	1384	1377	646
35°	1179	1169	1145	1119	1107	734
45°	894	880	840	795	778	687
55°	600	586	542	499	486	537
65°	354	342	313	295	292	355
75°	184	179	170	174	179	198
85°	65	62	61	68	69	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.2	1625.2	1625.2	1625.2	1625.2
2.5°	1627.7	1625.2	1617.5	1627.7	1626.9
5°	1622.6	1619.2	1612.3	1621.7	1620.9
7.5°	1612.3	1608.9	1602.0	1610.6	1608.9
10°	1596.9	1593.5	1586.6	1596.0	1591.8
12.5°	1577.2	1573.8	1566.1	1574.6	1571.2
15°	1552.4	1549.8	1540.4	1549.0	1543.0
17.5°	1522.4	1518.1	1511.3	1516.4	1512.1
20°	1489.0	1483.9	1472.7	1477.9	1473.6
22.5°	1448.8	1441.9	1434.2	1434.2	1428.2
25°	1403.4	1398.3	1386.3	1383.7	1376.8
27.5°	1354.6	1350.3	1334.9	1330.6	1318.6
30°	1299.8	1293.8	1277.5	1263.8	1253.5
32.5°	1239.0	1234.7	1212.4	1194.5	1179.9
35°	1179.1	1168.8	1144.8	1119.1	1107.1
37.5°	1108.8	1101.1	1071.2	1039.5	1023.2
40°	1038.6	1029.2	994.1	959.0	941.9
42.5°	962.4	953.9	920.5	878.5	860.5
45°	893.9	880.2	840.0	794.6	777.5
47.5°	818.6	804.0	761.2	713.3	693.6
50°	738.9	729.5	685.0	638.8	624.2
52.5°	667.9	653.3	611.4	566.0	550.6
55°	600.2	586.5	542.0	499.2	485.5
57.5°	532.6	517.2	478.6	440.1	426.4
60°	469.2	453.8	416.1	384.5	375.9
62.5°	411.9	394.7	361.3	336.5	330.5
65°	353.6	342.5	313.4	295.4	292.0
67.5°	304.8	291.1	268.0	259.4	257.7
70°	260.3	250.9	231.2	228.6	228.6
72.5°	220.1	212.3	197.8	199.5	202.1
75°	184.1	179.0	170.4	173.8	179.0
77.5°	153.3	148.1	143.0	148.1	151.6
80°	124.2	119.0	118.2	122.4	125.0
82.5°	93.3	89.0	89.9	96.8	99.3
85°	65.1	62.5	60.8	68.5	69.4
87.5°	33.4	31.7	30.8	36.8	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)