

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: P290773

Luminaire Tested: **14GR-LD5-36-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290773
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3454.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

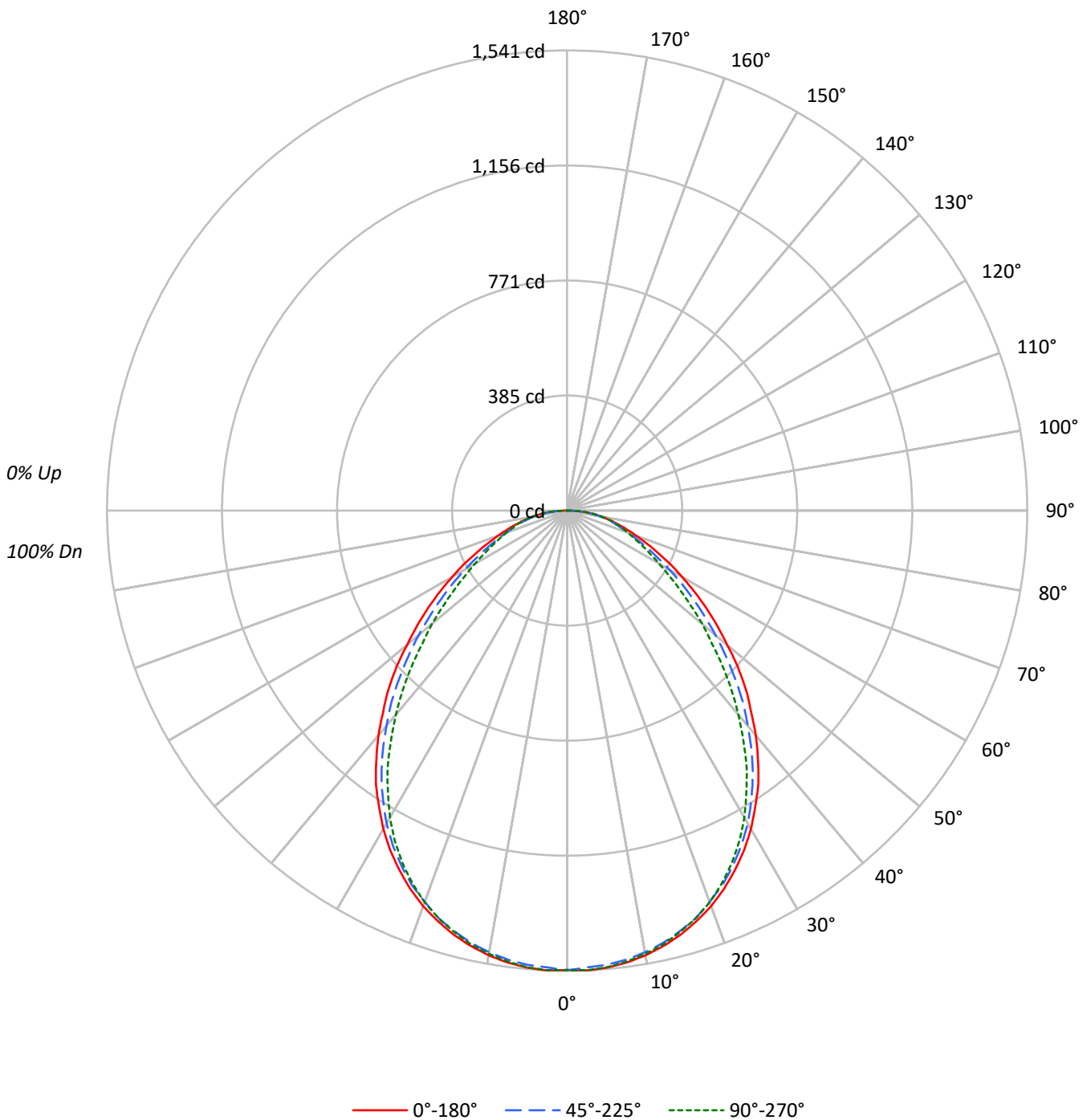
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4141	4141	4141
5°	4150	4124	4146
10°	4132	4105	4118
15°	4095	4063	4070
20°	4037	3993	3995
25°	3945	3897	3871
30°	3824	3759	3688
35°	3667	3561	3444
40°	3455	3306	3133
45°	3221	3027	2801
50°	2929	2715	2474
55°	2666	2408	2157
60°	2391	2120	1915
65°	2132	1889	1761
70°	1939	1722	1703
75°	1812	1677	1761
80°	1822	1734	1835
85°	1902	1778	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	4.2
10°-20°	412.5	11.9
20°-30°	604.8	17.5
30°-40°	675.0	19.5
40°-50°	611.1	17.7
50°-60°	461.4	13.4
60°-70°	301.6	8.7
70°-80°	177.2	5.1
80°-90°	64.9	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°	1162.8	33.7
0°-40°	1837.8	53.2
0°-60°	2910.3	84.3
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1536	1533	1527	1536	1535	146
15°	1470	1467	1458	1467	1461	414
25°	1329	1324	1312	1310	1304	611
35°	1116	1107	1084	1060	1048	695
45°	846	833	795	752	736	650
55°	568	555	513	473	460	509
65°	335	324	297	280	276	336
75°	174	169	161	165	169	187
85°	62	59	58	65	66	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.7	1538.7	1538.7	1538.7	1538.7
2.5°	1541.2	1538.7	1531.4	1541.2	1540.4
5°	1536.3	1533.1	1526.6	1535.5	1534.7
7.5°	1526.6	1523.3	1516.8	1525.0	1523.3
10°	1512.0	1508.7	1502.3	1511.2	1507.1
12.5°	1493.3	1490.1	1482.8	1490.9	1487.7
15°	1469.8	1467.4	1458.5	1466.6	1460.9
17.5°	1441.4	1437.4	1430.9	1435.8	1431.7
20°	1409.8	1405.0	1394.4	1399.3	1395.2
22.5°	1371.7	1365.2	1357.9	1357.9	1352.3
25°	1328.8	1323.9	1312.5	1310.1	1303.6
27.5°	1282.5	1278.5	1263.9	1259.8	1248.5
30°	1230.7	1225.0	1209.6	1196.6	1186.9
32.5°	1173.1	1169.0	1148.0	1130.9	1117.2
35°	1116.4	1106.6	1083.9	1059.6	1048.3
37.5°	1049.9	1042.6	1014.2	984.2	968.8
40°	983.4	974.5	941.2	908.0	891.8
42.5°	911.2	903.1	871.5	831.8	814.8
45°	846.4	833.4	795.3	752.3	736.1
47.5°	775.0	761.3	720.7	675.3	656.7
50°	699.6	690.7	648.6	604.8	591.0
52.5°	632.4	618.6	578.8	535.9	521.3
55°	568.3	555.3	513.2	472.6	459.7
57.5°	504.3	489.7	453.2	416.7	403.7
60°	444.3	429.7	394.0	364.0	355.9
62.5°	390.0	373.7	342.1	318.6	312.9
65°	334.8	324.3	296.7	279.7	276.5
67.5°	288.6	275.6	253.8	245.6	244.0
70°	246.5	237.5	218.9	216.5	216.5
72.5°	208.4	201.1	187.3	188.9	191.3
75°	174.3	169.4	161.3	164.6	169.4
77.5°	145.1	140.3	135.4	140.3	143.5
80°	117.6	112.7	111.9	115.9	118.4
82.5°	88.4	84.3	85.1	91.6	94.0
85°	61.6	59.2	57.6	64.9	65.7
87.5°	31.6	30.0	29.2	34.9	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)