

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: P290828

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290828
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

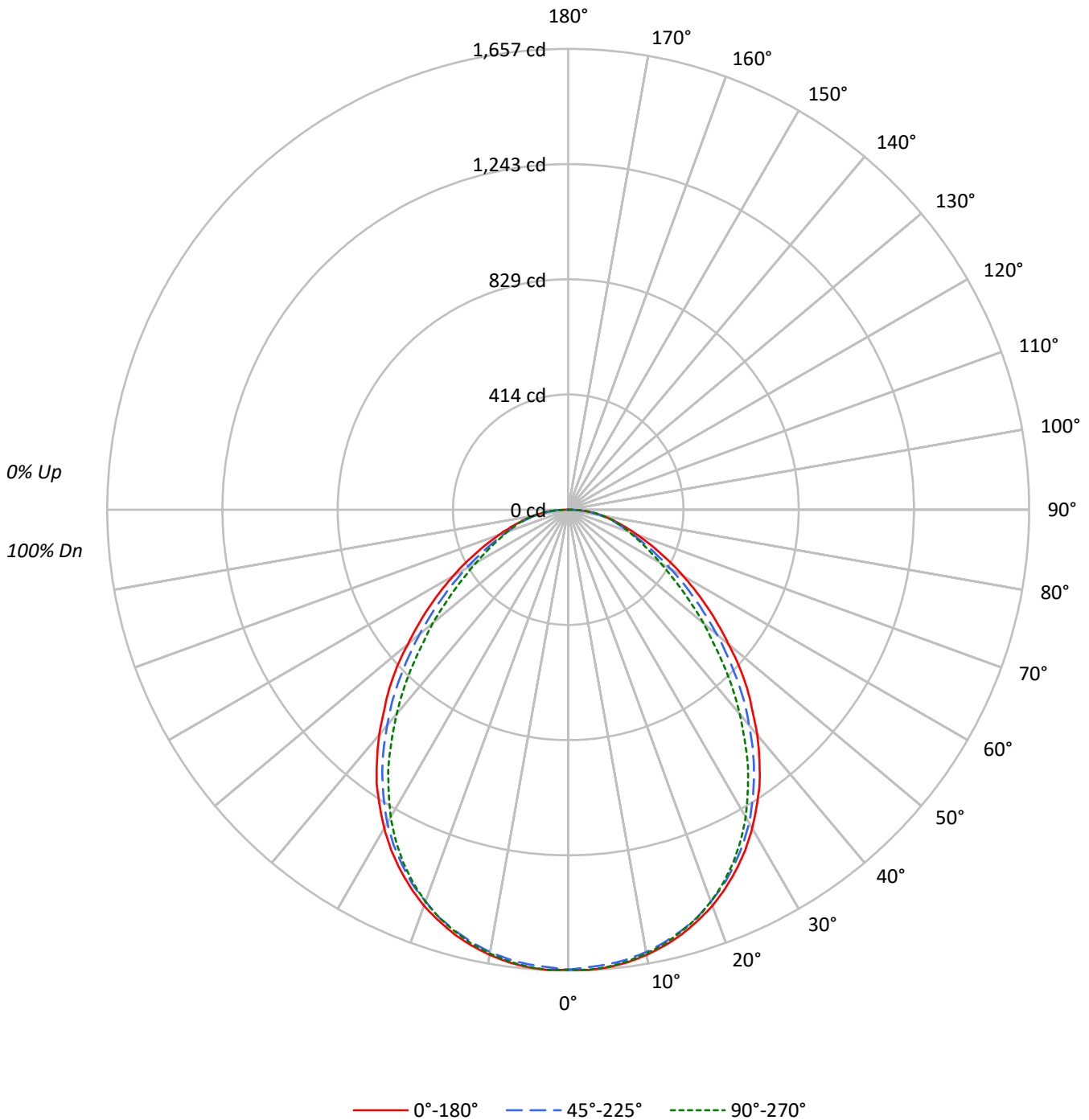
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4451	4451	4451
5°	4461	4433	4457
10°	4441	4413	4427
15°	4402	4368	4375
20°	4340	4293	4295
25°	4241	4189	4161
30°	4111	4040	3965
35°	3942	3828	3702
40°	3713	3554	3368
45°	3463	3253	3011
50°	3149	2919	2660
55°	2866	2588	2318
60°	2570	2280	2059
65°	2292	2031	1892
70°	2084	1851	1831
75°	1948	1803	1893
80°	1959	1864	1971
85°	2044	1911	2180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	4.2
10°-20°	443.4	11.9
20°-30°	650.1	17.5
30°-40°	725.6	19.5
40°-50°	657.0	17.7
50°-60°	496.1	13.4
60°-70°	324.3	8.7
70°-80°	190.4	5.1
80°-90°	69.7	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°	1250.0	33.7
0°-40°	1975.6	53.2
0°-60°	3128.6	84.3
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1652	1648	1641	1651	1650	157
15°	1580	1577	1568	1577	1570	445
25°	1428	1423	1411	1408	1401	657
35°	1200	1190	1165	1139	1127	747
45°	910	896	855	809	791	699
55°	611	597	552	508	494	547
65°	360	349	319	301	297	361
75°	187	182	173	177	182	201
85°	66	64	62	70	71	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.1	1654.1	1654.1	1654.1	1654.1
2.5°	1656.7	1654.1	1646.3	1656.7	1655.9
5°	1651.5	1648.0	1641.0	1650.6	1649.8
7.5°	1641.0	1637.6	1630.6	1639.3	1637.6
10°	1625.4	1621.9	1614.9	1624.5	1620.1
12.5°	1605.3	1601.8	1594.0	1602.7	1599.2
15°	1580.0	1577.4	1567.8	1576.6	1570.5
17.5°	1549.5	1545.2	1538.2	1543.4	1539.1
20°	1515.5	1510.3	1499.0	1504.2	1499.9
22.5°	1474.6	1467.6	1459.8	1459.8	1453.7
25°	1428.4	1423.2	1411.0	1408.4	1401.4
27.5°	1378.7	1374.4	1358.7	1354.3	1342.1
30°	1322.9	1316.8	1300.3	1286.3	1275.9
32.5°	1261.1	1256.7	1234.1	1215.8	1200.9
35°	1200.1	1189.6	1165.2	1139.1	1126.9
37.5°	1128.6	1120.8	1090.3	1058.0	1041.4
40°	1057.1	1047.5	1011.8	976.1	958.7
42.5°	979.6	970.9	936.9	894.2	875.9
45°	909.9	895.9	854.9	808.8	791.3
47.5°	833.2	818.3	774.8	726.0	705.9
50°	752.1	742.5	697.2	650.1	635.3
52.5°	679.8	665.0	622.3	576.1	560.4
55°	610.9	597.0	551.7	508.1	494.1
57.5°	542.1	526.4	487.2	448.0	434.0
60°	477.6	461.9	423.6	391.3	382.6
62.5°	419.2	401.8	367.8	342.5	336.4
65°	359.9	348.6	319.0	300.7	297.2
67.5°	310.3	296.3	272.8	264.1	262.3
70°	264.9	255.4	235.3	232.7	232.7
72.5°	224.0	216.1	201.3	203.1	205.7
75°	187.4	182.1	173.4	176.9	182.1
77.5°	156.0	150.8	145.5	150.8	154.3
80°	126.4	121.1	120.3	124.6	127.2
82.5°	95.0	90.6	91.5	98.5	101.1
85°	66.2	63.6	61.9	69.7	70.6
87.5°	34.0	32.2	31.4	37.5	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)