

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: P290938

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290938  
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-LD5-40-F125-UNV-L92765-W2A1-U-5700K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3856.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

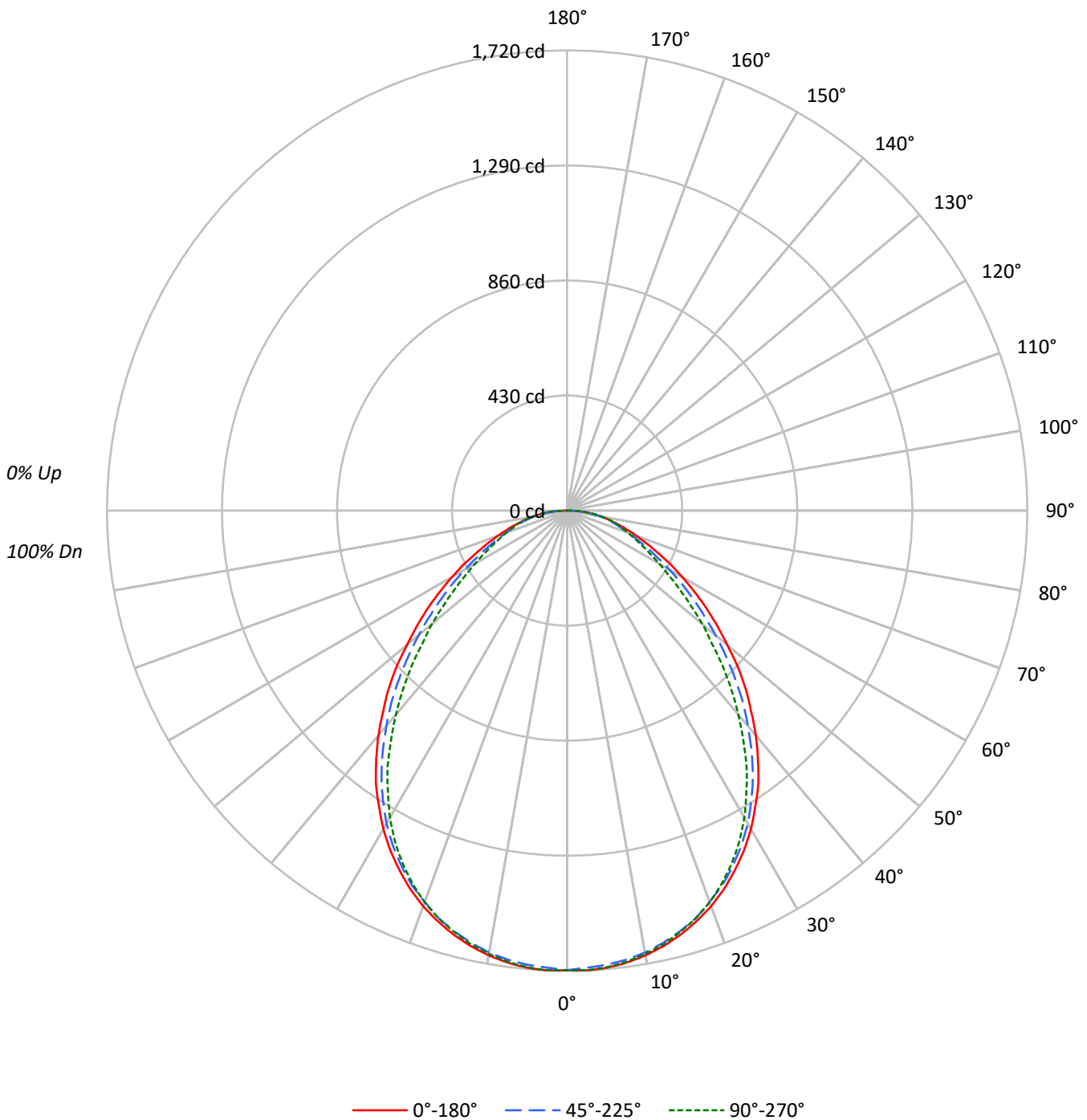
Input Watts (W): 34.689  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4623	4623	4623
5°	4633	4603	4628
10°	4612	4583	4597
15°	4571	4536	4544
20°	4507	4458	4460
25°	4404	4351	4321
30°	4269	4196	4117
35°	4094	3975	3845
40°	3857	3691	3497
45°	3596	3379	3127
50°	3270	3031	2762
55°	2977	2688	2408
60°	2669	2368	2138
65°	2380	2110	1965
70°	2164	1923	1902
75°	2023	1873	1967
80°	2033	1936	2047
85°	2124	1985	2263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	4.2
10°-20°	460.5	11.9
20°-30°	675.2	17.5
30°-40°	753.6	19.5
40°-50°	682.3	17.7
50°-60°	515.2	13.4
60°-70°	336.7	8.7
70°-80°	197.8	5.1
80°-90°	72.4	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°	1298.1	33.7
0°-40°	2051.7	53.2
0°-60°	3249.1	84.3
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1715	1712	1704	1714	1713	163
15°	1641	1638	1628	1637	1631	462
25°	1483	1478	1465	1463	1455	682
35°	1246	1235	1210	1183	1170	776
45°	945	930	888	840	822	726
55°	634	620	573	528	513	568
65°	374	362	331	312	309	375
75°	195	189	180	184	189	209
85°	69	66	64	72	73	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1717.8	1717.8	1717.8	1717.8	1717.8
2.5°	1720.5	1717.8	1709.7	1720.5	1719.6
5°	1715.1	1711.5	1704.2	1714.2	1713.3
7.5°	1704.2	1700.6	1693.4	1702.4	1700.6
10°	1688.0	1684.3	1677.1	1687.1	1682.5
12.5°	1667.1	1663.5	1655.4	1664.4	1660.8
15°	1640.9	1638.2	1628.2	1637.3	1630.9
17.5°	1609.2	1604.7	1597.4	1602.9	1598.4
20°	1573.9	1568.5	1556.7	1562.2	1557.6
22.5°	1531.4	1524.1	1516.0	1516.0	1509.7
25°	1483.4	1478.0	1465.3	1462.6	1455.4
27.5°	1431.8	1427.3	1411.0	1406.5	1393.8
30°	1373.9	1367.6	1350.4	1335.9	1325.0
32.5°	1309.6	1305.1	1281.6	1262.6	1247.2
35°	1246.3	1235.4	1210.1	1182.9	1170.3
37.5°	1172.1	1163.9	1132.2	1098.8	1081.6
40°	1097.9	1087.9	1050.8	1013.7	995.6
42.5°	1017.3	1008.2	973.0	928.6	909.6
45°	944.9	930.4	887.9	839.9	821.8
47.5°	865.2	849.9	804.6	753.9	733.1
50°	781.1	771.1	724.1	675.2	659.8
52.5°	706.0	690.6	646.2	598.3	582.0
55°	634.5	620.0	572.9	527.7	513.2
57.5°	563.0	546.7	505.9	465.2	450.7
60°	496.0	479.7	439.9	406.4	397.3
62.5°	435.3	417.2	381.9	355.7	349.4
65°	373.8	362.0	331.3	312.2	308.6
67.5°	322.2	307.7	283.3	274.2	272.4
70°	275.1	265.2	244.4	241.7	241.7
72.5°	232.6	224.5	209.1	210.9	213.6
75°	194.6	189.2	180.1	183.7	189.2
77.5°	162.0	156.6	151.1	156.6	160.2
80°	131.2	125.8	124.9	129.4	132.1
82.5°	98.7	94.1	95.0	102.3	105.0
85°	68.8	66.1	64.3	72.4	73.3
87.5°	35.3	33.5	32.6	38.9	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)