

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: P290947

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290947  
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-LD5-43-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: 4113.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

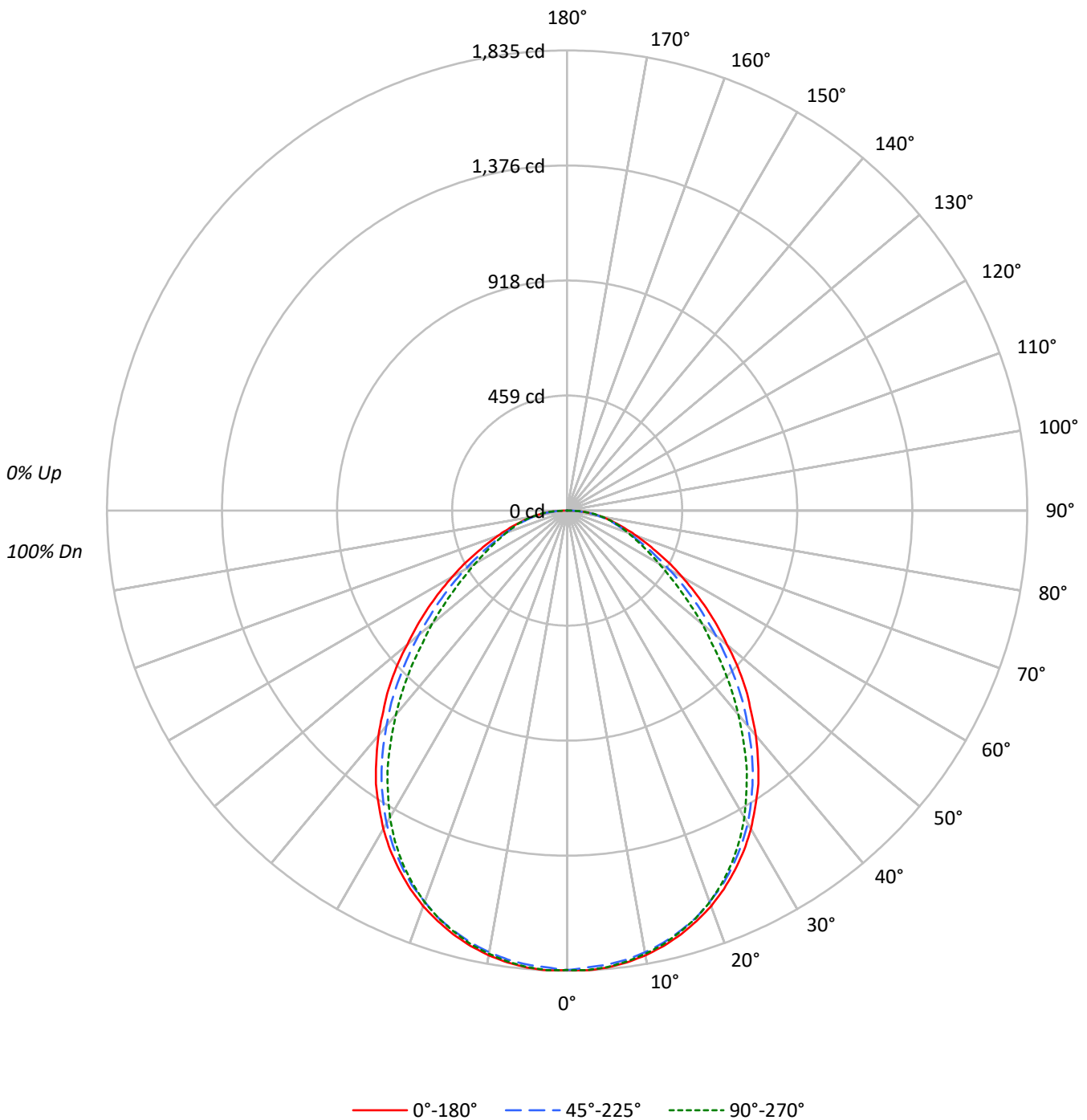
Input Watts (W): 37.665  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4931	4931	4931
5°	4942	4910	4937
10°	4920	4888	4904
15°	4876	4838	4846
20°	4808	4755	4758
25°	4698	4641	4609
30°	4554	4476	4392
35°	4367	4240	4101
40°	4114	3937	3730
45°	3836	3604	3336
50°	3488	3233	2946
55°	3175	2867	2568
60°	2847	2525	2281
65°	2539	2250	2096
70°	2309	2051	2028
75°	2158	1997	2098
80°	2170	2064	2183
85°	2266	2115	2414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	4.2
10°-20°	491.2	11.9
20°-30°	720.2	17.5
30°-40°	803.8	19.5
40°-50°	727.7	17.7
50°-60°	549.5	13.4
60°-70°	359.2	8.7
70°-80°	211.0	5.1
80°-90°	77.2	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°	1384.6	33.7
0°-40°	2188.4	53.2
0°-60°	3465.6	84.3
0°-90°	4113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1829	1826	1818	1828	1828	174
15°	1750	1747	1737	1746	1740	493
25°	1582	1576	1563	1560	1552	728
35°	1329	1318	1291	1262	1248	828
45°	1008	992	947	896	877	774
55°	677	661	611	563	547	605
65°	399	386	353	333	329	400
75°	208	202	192	196	202	223
85°	73	70	68	77	78	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1832.3	1832.3	1832.3	1832.3	1832.3
2.5°	1835.2	1832.3	1823.6	1835.2	1834.2
5°	1829.4	1825.6	1817.8	1828.5	1827.5
7.5°	1817.8	1814.0	1806.2	1815.9	1814.0
10°	1800.5	1796.6	1788.9	1799.5	1794.7
12.5°	1778.3	1774.4	1765.7	1775.4	1771.5
15°	1750.3	1747.4	1736.7	1746.4	1739.6
17.5°	1716.5	1711.6	1703.9	1709.7	1704.9
20°	1678.8	1673.0	1660.5	1666.3	1661.4
22.5°	1633.4	1625.7	1617.0	1617.0	1610.3
25°	1582.3	1576.5	1563.0	1560.1	1552.4
27.5°	1527.3	1522.4	1505.0	1500.2	1486.7
30°	1465.5	1458.7	1440.4	1424.9	1413.3
32.5°	1396.9	1392.1	1367.0	1346.7	1330.3
35°	1329.3	1317.8	1290.7	1261.8	1248.3
37.5°	1250.2	1241.5	1207.7	1172.0	1153.6
40°	1171.0	1160.4	1120.8	1081.2	1061.9
42.5°	1085.1	1075.4	1037.8	990.5	970.2
45°	1007.9	992.4	947.1	895.9	876.6
47.5°	922.9	906.5	858.2	804.2	782.0
50°	833.1	822.5	772.3	720.2	703.8
52.5°	753.0	736.6	689.3	638.1	620.7
55°	676.7	661.3	611.1	562.8	547.4
57.5°	600.5	583.1	539.7	496.2	480.8
60°	529.0	511.7	469.2	433.5	423.8
62.5°	464.4	445.0	407.4	379.4	372.6
65°	398.7	386.2	353.3	333.1	329.2
67.5°	343.7	328.2	302.2	292.5	290.6
70°	293.5	282.9	260.7	257.8	257.8
72.5°	248.1	239.4	223.0	224.9	227.8
75°	207.6	201.8	192.1	196.0	201.8
77.5°	172.8	167.0	161.2	167.0	170.9
80°	140.0	134.2	133.2	138.1	140.9
82.5°	105.2	100.4	101.4	109.1	112.0
85°	73.4	70.5	68.5	77.2	78.2
87.5°	37.7	35.7	34.8	41.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)