

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: P291225

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-40-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3797.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

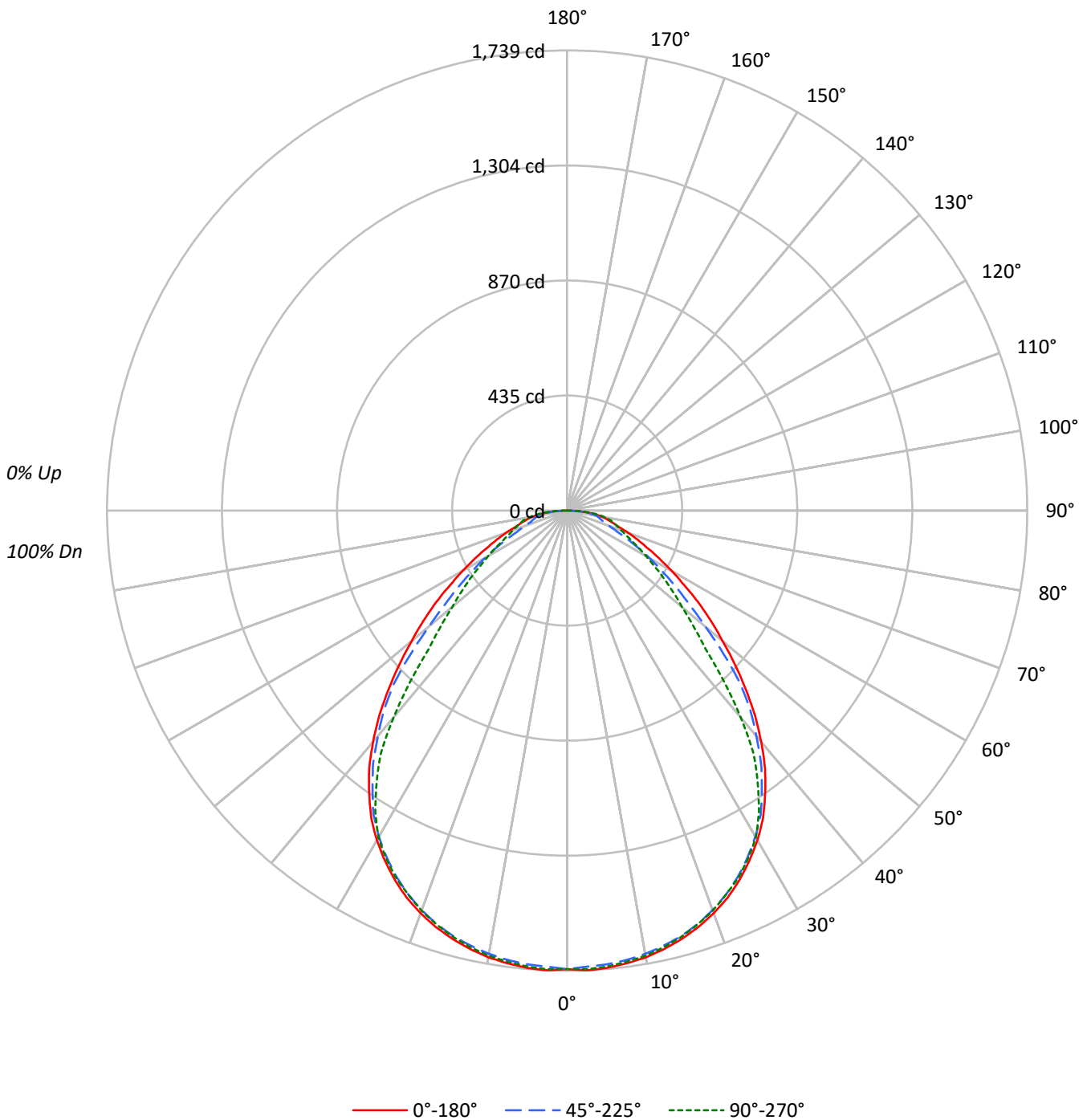
Input Watts (W): 33.666  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4663	4663	4663
5°	4685	4649	4671
10°	4684	4648	4667
15°	4668	4638	4645
20°	4637	4601	4606
25°	4575	4533	4546
30°	4470	4420	4431
35°	4286	4213	4124
40°	4007	3908	3586
45°	3627	3523	2813
50°	3208	2851	2371
55°	2839	2343	2091
60°	2451	1939	1854
65°	2131	1542	1705
70°	1927	1323	1705
75°	1850	1383	1905
80°	2061	1760	2225
85°	2177	1877	2665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.4	4.3
10°-20°	471.0	12.4
20°-30°	704.9	18.6
30°-40°	797.9	21.0
40°-50°	679.7	17.9
50°-60°	460.2	12.1
60°-70°	274.7	7.2
70°-80°	171.6	4.5
80°-90°	72.5	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°	1340.3	35.3
0°-40°	2138.2	56.3
0°-60°	3278.1	86.3
0°-90°	3797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1734	1730	1721	1732	1729	165
15°	1675	1669	1665	1675	1668	473
25°	1541	1536	1527	1534	1531	709
35°	1305	1297	1283	1269	1255	813
45°	953	956	926	789	739	735
55°	605	572	500	446	446	541
65°	335	279	242	259	268	337
75°	178	159	133	174	183	192
85°	70	65	61	77	86	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1738.9	1734.5	1724.8	1736.2	1734.5
5°	1734.5	1730.0	1721.2	1731.8	1729.2
7.5°	1725.6	1721.2	1713.3	1723.9	1719.5
10°	1714.2	1708.9	1701.0	1712.4	1708.0
12.5°	1696.6	1691.3	1684.2	1695.7	1689.5
15°	1675.4	1669.3	1664.9	1675.4	1667.5
17.5°	1649.9	1644.6	1638.4	1649.0	1640.2
20°	1619.1	1614.7	1606.7	1612.9	1608.5
22.5°	1583.8	1577.7	1569.7	1576.8	1570.6
25°	1540.7	1536.3	1526.6	1533.6	1531.0
27.5°	1491.3	1488.7	1477.2	1486.0	1481.6
30°	1438.5	1431.4	1422.6	1425.3	1426.1
32.5°	1377.7	1368.9	1361.8	1355.7	1349.5
35°	1304.6	1296.7	1282.6	1269.3	1255.3
37.5°	1228.8	1218.3	1204.2	1175.1	1157.5
40°	1140.7	1135.5	1112.6	1072.0	1020.9
42.5°	1050.9	1045.6	1025.3	934.6	879.1
45°	953.1	955.8	925.8	789.3	739.1
47.5°	859.7	866.8	801.6	673.9	647.4
50°	766.4	774.3	680.9	582.3	566.4
52.5°	684.4	678.3	580.5	510.9	503.9
55°	605.2	571.7	499.5	445.7	445.7
57.5°	524.1	476.6	424.6	390.2	390.2
60°	455.4	396.4	360.3	337.4	344.4
62.5°	392.0	329.4	298.6	294.2	303.0
65°	334.7	279.2	242.2	259.0	267.8
67.5°	288.0	238.7	199.1	234.3	239.6
70°	244.9	207.9	168.2	215.8	216.7
72.5°	205.2	183.2	144.5	195.6	199.1
75°	177.9	159.4	133.0	174.4	183.2
77.5°	155.9	136.5	122.4	150.6	167.4
80°	133.0	111.9	113.6	126.8	143.6
82.5°	102.2	86.3	89.8	103.9	117.2
85°	70.5	65.2	60.8	76.6	86.3
87.5°	37.9	35.2	30.8	43.2	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)