

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: P291270

Luminaire Tested: **14GR-LD5-40-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291270  
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-L93050-W2A1-U-4000K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3799.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

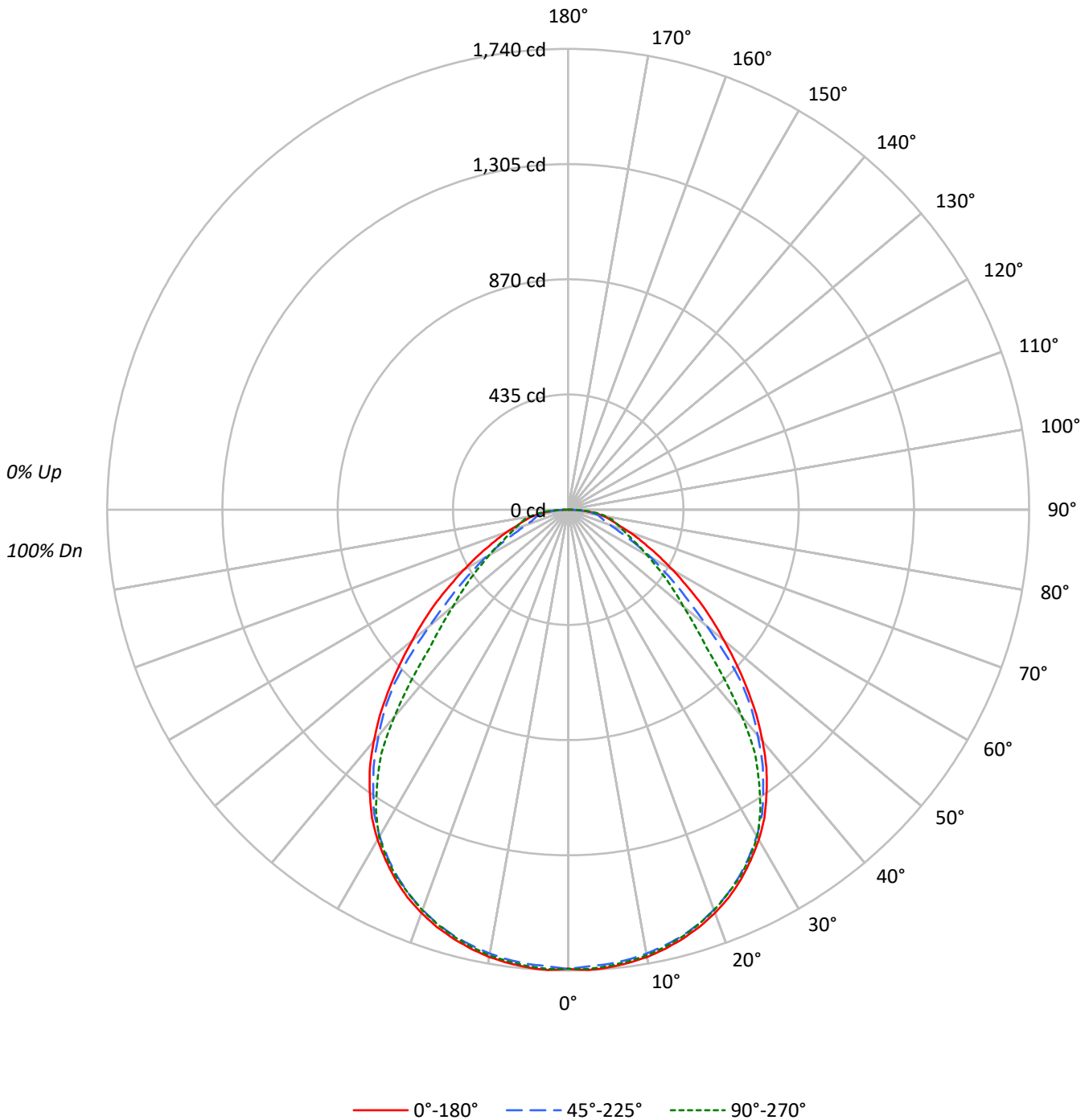
Input Watts (W): 34.503  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4665	4665	4665
5°	4688	4652	4673
10°	4686	4650	4670
15°	4670	4640	4648
20°	4639	4604	4609
25°	4577	4535	4548
30°	4472	4423	4434
35°	4288	4215	4126
40°	4009	3910	3588
45°	3629	3525	2814
50°	3210	2852	2372
55°	2841	2344	2092
60°	2453	1940	1855
65°	2132	1543	1706
70°	1928	1324	1706
75°	1851	1384	1906
80°	2063	1762	2227
85°	2177	1877	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.4	4.3
10°-20°	471.3	12.4
20°-30°	705.3	18.6
30°-40°	798.4	21.0
40°-50°	680.0	17.9
50°-60°	460.4	12.1
60°-70°	274.9	7.2
70°-80°	171.7	4.5
80°-90°	72.6	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°	1341.0	35.3
0°-40°	2139.3	56.3
0°-60°	3279.8	86.3
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1735	1731	1722	1733	1730	165
15°	1676	1670	1666	1676	1668	473
25°	1542	1537	1527	1534	1532	709
35°	1305	1297	1283	1270	1256	814
45°	954	956	926	790	739	735
55°	606	572	500	446	446	541
65°	335	279	242	259	268	338
75°	178	160	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°	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1739.8	1735.4	1725.7	1737.1	1735.4
5°	1735.4	1731.0	1722.1	1732.7	1730.1
7.5°	1726.6	1722.1	1714.2	1724.8	1720.4
10°	1715.1	1709.8	1701.9	1713.3	1708.9
12.5°	1697.5	1692.2	1685.1	1696.6	1690.4
15°	1676.3	1670.1	1665.7	1676.3	1668.4
17.5°	1650.8	1645.5	1639.3	1649.9	1641.1
20°	1619.9	1615.5	1607.6	1613.7	1609.3
22.5°	1584.7	1578.5	1570.6	1577.6	1571.4
25°	1541.5	1537.1	1527.4	1534.4	1531.8
27.5°	1492.1	1489.5	1478.0	1486.8	1482.4
30°	1439.2	1432.2	1423.4	1426.0	1426.9
32.5°	1378.4	1369.6	1362.6	1356.4	1350.2
35°	1305.3	1297.3	1283.2	1270.0	1255.9
37.5°	1229.5	1218.9	1204.8	1175.7	1158.1
40°	1141.3	1136.1	1113.1	1072.6	1021.5
42.5°	1051.4	1046.2	1025.9	935.1	879.6
45°	953.6	956.3	926.3	789.7	739.4
47.5°	860.2	867.2	802.0	674.2	647.8
50°	766.8	774.7	681.3	582.6	566.7
52.5°	684.8	678.6	580.8	511.2	504.1
55°	605.5	572.0	499.7	446.0	446.0
57.5°	524.4	476.8	424.8	390.4	390.4
60°	455.7	396.6	360.5	337.6	344.6
62.5°	392.2	329.6	298.8	294.4	303.2
65°	334.9	279.4	242.4	259.1	267.9
67.5°	288.2	238.8	199.2	234.4	239.7
70°	245.0	208.0	168.3	215.9	216.8
72.5°	205.4	183.3	144.5	195.7	199.2
75°	178.0	159.5	133.1	174.5	183.3
77.5°	156.0	136.6	122.5	150.7	167.5
80°	133.1	111.9	113.7	126.9	143.7
82.5°	102.2	86.4	89.9	104.0	117.2
85°	70.5	65.2	60.8	76.7	86.4
87.5°	37.9	35.3	30.8	43.2	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)