

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: P291173

Luminaire Tested: **14GR-LD5-40-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291173  
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-L83050-W2A1-U-4500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4386.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

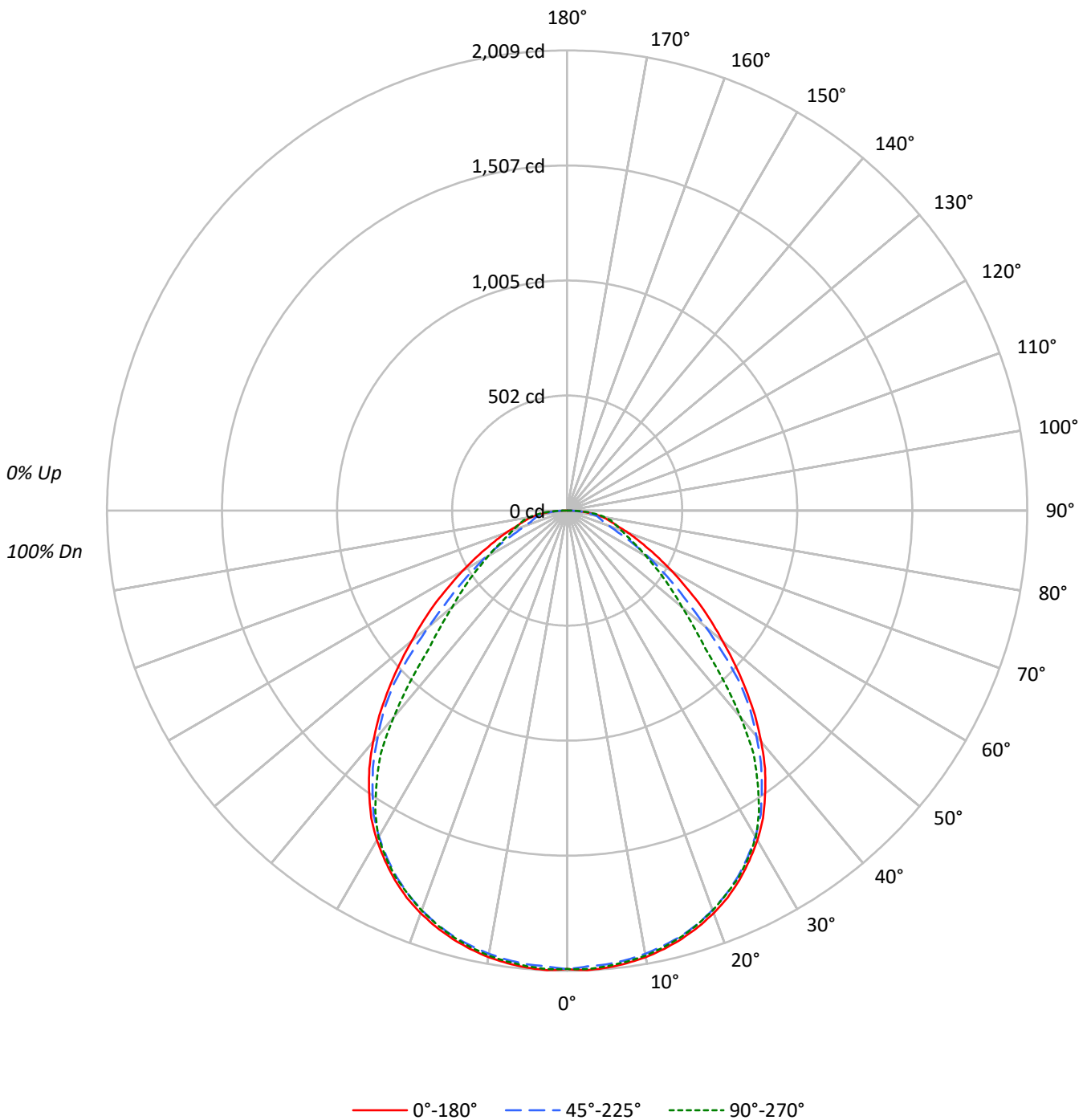
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	5386	5386	5386
5°	5412	5371	5395
10°	5411	5369	5391
15°	5392	5358	5366
20°	5356	5315	5321
25°	5284	5236	5251
30°	5163	5106	5119
35°	4951	4867	4763
40°	4629	4514	4143
45°	4190	4070	3249
50°	3706	3293	2739
55°	3279	2707	2416
60°	2831	2240	2141
65°	2462	1782	1969
70°	2226	1529	1969
75°	2137	1597	2200
80°	2380	2035	2571
85°	2513	2167	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.8	4.3
10°-20°	544.1	12.4
20°-30°	814.2	18.6
30°-40°	921.7	21.0
40°-50°	785.1	17.9
50°-60°	531.6	12.1
60°-70°	317.4	7.2
70°-80°	198.3	4.5
80°-90°	83.8	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°	1548.2	35.3
0°-40°	2469.9	56.3
0°-60°	3786.5	86.3
0°-90°	4386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	2004	1998	1988	2000	1997	190
15°	1935	1928	1923	1935	1926	546
25°	1780	1775	1763	1772	1768	818
35°	1507	1498	1482	1466	1450	939
45°	1101	1104	1069	912	854	849
55°	699	660	577	515	515	625
65°	387	323	280	299	309	390
75°	206	184	154	202	212	222
85°	81	75	70	88	100	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2001.5	2001.5	2001.5	2001.5	2001.5
2.5°	2008.6	2003.5	1992.3	2005.5	2003.5
5°	2003.5	1998.4	1988.2	2000.5	1997.4
7.5°	1993.3	1988.2	1979.1	1991.3	1986.2
10°	1980.1	1974.0	1964.8	1978.1	1973.0
12.5°	1959.8	1953.6	1945.5	1958.7	1951.6
15°	1935.3	1928.2	1923.1	1935.3	1926.2
17.5°	1905.8	1899.7	1892.6	1904.8	1894.6
20°	1870.2	1865.1	1856.0	1863.1	1858.0
22.5°	1829.5	1822.4	1813.2	1821.4	1814.2
25°	1779.6	1774.6	1763.4	1771.5	1768.5
27.5°	1722.7	1719.6	1706.4	1716.6	1711.5
30°	1661.6	1653.5	1643.3	1646.4	1647.4
32.5°	1591.4	1581.2	1573.1	1566.0	1558.8
35°	1507.0	1497.8	1481.5	1466.3	1450.0
37.5°	1419.4	1407.2	1391.0	1357.4	1337.0
40°	1317.7	1311.6	1285.1	1238.3	1179.3
42.5°	1213.9	1207.8	1184.4	1079.6	1015.5
45°	1101.0	1104.0	1069.4	911.7	853.7
47.5°	993.1	1001.2	925.9	778.4	747.9
50°	885.2	894.4	786.5	672.6	654.3
52.5°	790.6	783.5	670.5	590.2	582.0
55°	699.0	660.4	576.9	514.9	514.9
57.5°	605.4	550.5	490.4	450.8	450.8
60°	526.1	457.9	416.2	389.7	397.9
62.5°	452.8	380.6	344.9	339.9	350.0
65°	386.7	322.6	279.8	299.2	309.3
67.5°	332.7	275.7	230.0	270.7	276.8
70°	282.9	240.1	194.3	249.3	250.3
72.5°	237.1	211.6	166.9	225.9	230.0
75°	205.5	184.2	153.6	201.5	211.6
77.5°	180.1	157.7	141.4	174.0	193.3
80°	153.6	129.2	131.3	146.5	165.9
82.5°	118.0	99.7	103.8	120.1	135.3
85°	81.4	75.3	70.2	88.5	99.7
87.5°	43.8	40.7	35.6	49.9	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)