

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: P291172

Luminaire Tested: **14GR-LD5-40-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291172
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4345.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

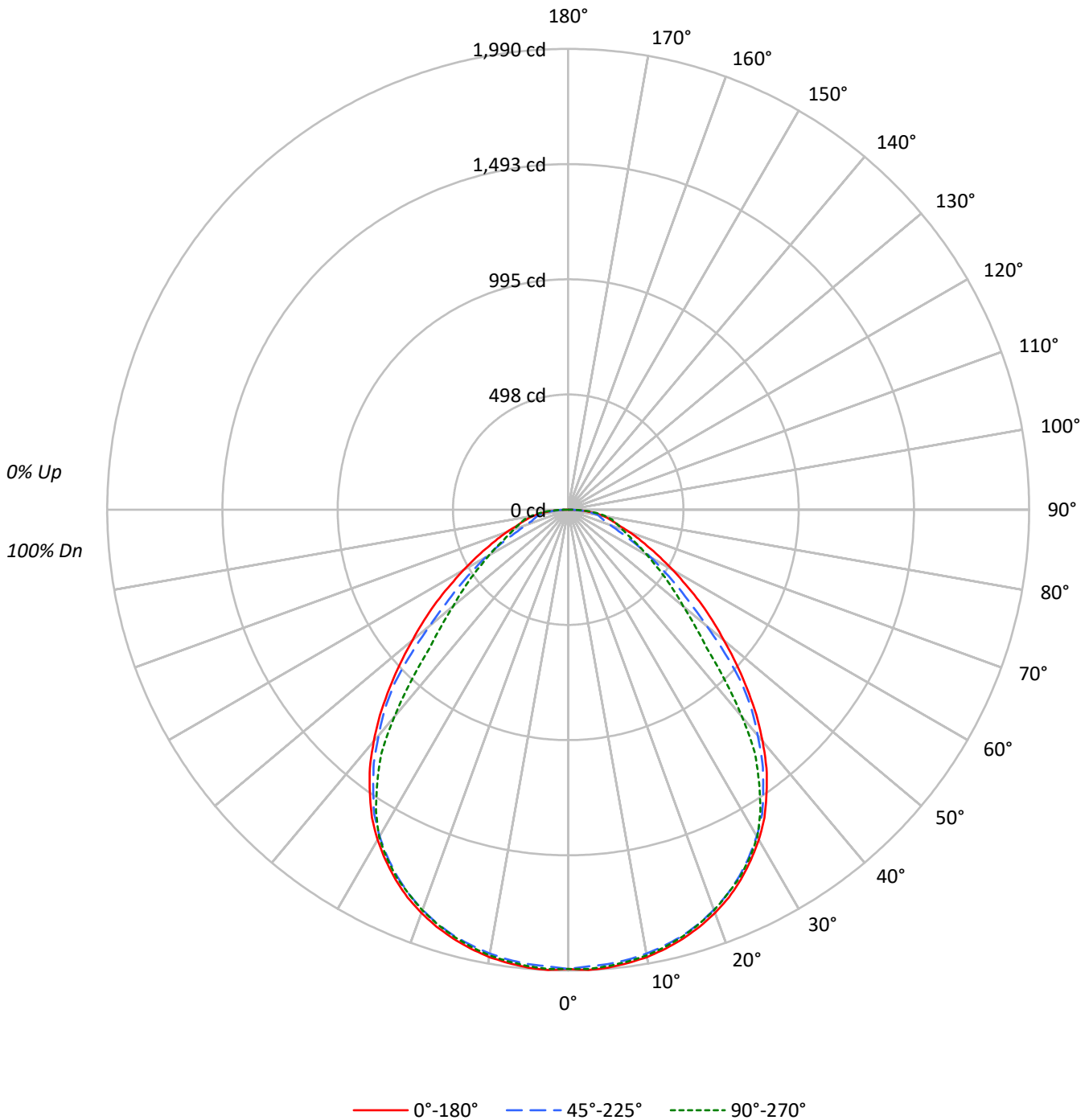
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5336	5336	5336
5°	5361	5321	5345
10°	5360	5319	5341
15°	5341	5307	5316
20°	5306	5265	5271
25°	5235	5187	5202
30°	5115	5058	5071
35°	4904	4822	4719
40°	4586	4472	4104
45°	4151	4032	3218
50°	3671	3262	2714
55°	3249	2681	2393
60°	2805	2219	2121
65°	2439	1765	1951
70°	2205	1515	1951
75°	2117	1582	2180
80°	2359	2015	2546
85°	2489	2149	3051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	4.3
10°-20°	539.0	12.4
20°-30°	806.6	18.6
30°-40°	913.1	21.0
40°-50°	777.8	17.9
50°-60°	526.6	12.1
60°-70°	314.4	7.2
70°-80°	196.4	4.5
80°-90°	83.0	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°	1533.7	35.3
0°-40°	2446.8	56.3
0°-60°	3751.1	86.3
0°-90°	4345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1985	1980	1970	1982	1979	189
15°	1917	1910	1905	1917	1908	541
25°	1763	1758	1747	1755	1752	811
35°	1493	1484	1468	1452	1436	930
45°	1091	1094	1059	903	846	841
55°	692	654	572	510	510	619
65°	383	320	277	296	306	386
75°	204	182	152	200	210	220
85°	81	75	70	88	99	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.8	1982.8	1982.8	1982.8	1982.8
2.5°	1989.8	1984.8	1973.7	1986.8	1984.8
5°	1984.8	1979.7	1969.7	1981.8	1978.7
7.5°	1974.7	1969.7	1960.6	1972.7	1967.6
10°	1961.6	1955.5	1946.5	1959.6	1954.5
12.5°	1941.4	1935.4	1927.3	1940.4	1933.4
15°	1917.2	1910.2	1905.1	1917.2	1908.2
17.5°	1888.0	1882.0	1874.9	1887.0	1876.9
20°	1852.7	1847.7	1838.6	1845.7	1840.6
22.5°	1812.4	1805.3	1796.3	1804.3	1797.3
25°	1763.0	1758.0	1746.9	1754.9	1751.9
27.5°	1706.6	1703.5	1690.4	1700.5	1695.5
30°	1646.1	1638.0	1627.9	1631.0	1632.0
32.5°	1576.5	1566.5	1558.4	1551.3	1544.3
35°	1492.9	1483.8	1467.7	1452.5	1436.4
37.5°	1406.2	1394.1	1378.0	1344.7	1324.5
40°	1305.4	1299.3	1273.1	1226.8	1168.3
42.5°	1202.6	1196.5	1173.3	1069.5	1006.0
45°	1090.7	1093.7	1059.4	903.2	845.7
47.5°	983.8	991.9	917.3	771.1	740.9
50°	877.0	886.0	779.2	666.3	648.2
52.5°	783.2	776.2	664.3	584.6	576.6
55°	692.5	654.2	571.5	510.1	510.1
57.5°	599.8	545.3	485.9	446.5	446.5
60°	521.1	453.6	412.3	386.1	394.1
62.5°	448.6	377.0	341.7	336.7	346.8
65°	383.0	319.5	277.2	296.4	306.4
67.5°	329.6	273.2	227.8	268.1	274.2
70°	280.2	237.9	192.5	247.0	248.0
72.5°	234.9	209.7	165.3	223.8	227.8
75°	203.6	182.5	152.2	199.6	209.7
77.5°	178.4	156.2	140.1	172.4	191.5
80°	152.2	128.0	130.0	145.2	164.3
82.5°	116.9	98.8	102.8	118.9	134.1
85°	80.6	74.6	69.6	87.7	98.8
87.5°	43.3	40.3	35.3	49.4	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)