

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: P291231

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291231
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

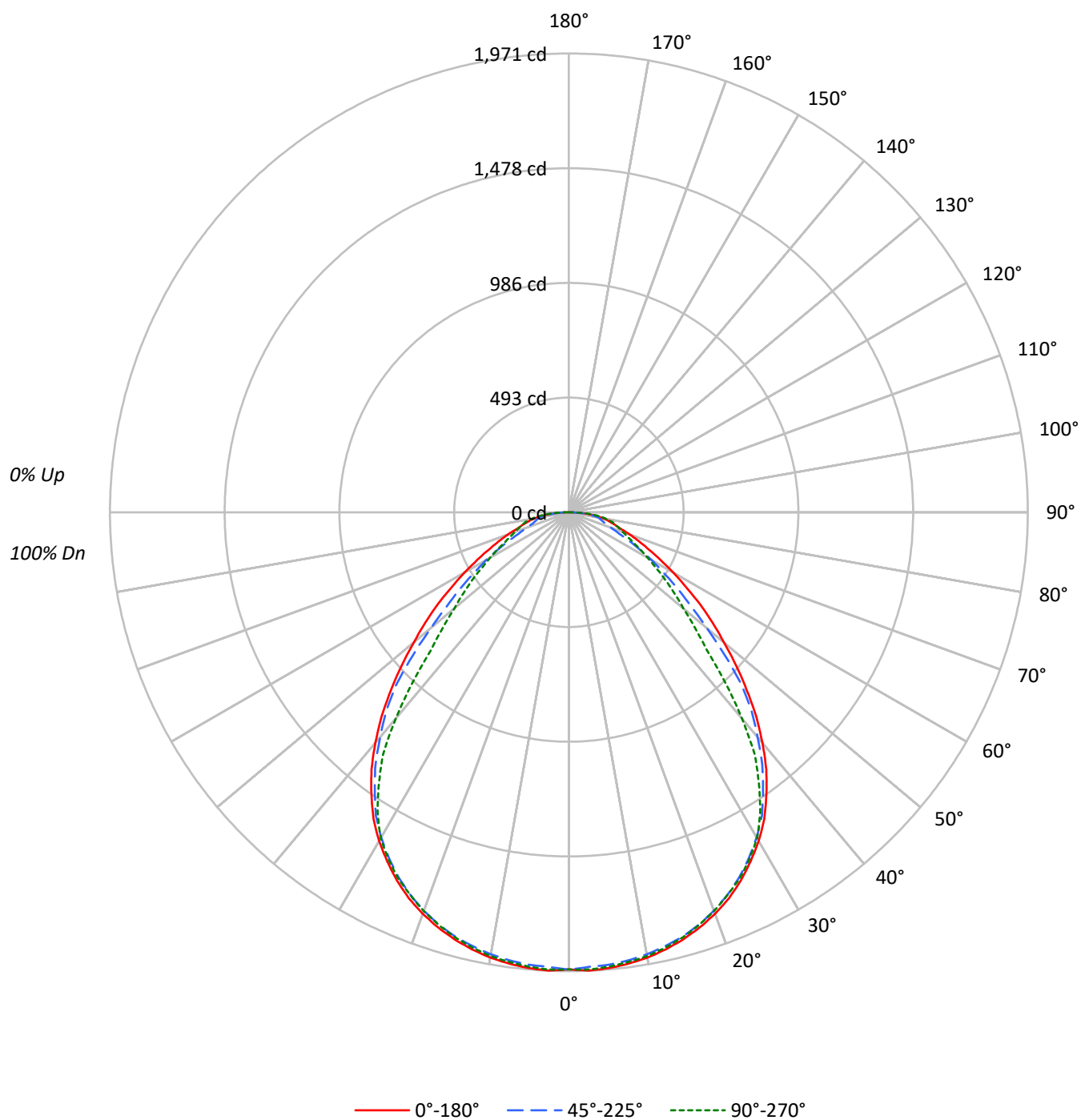
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5284	5284	5284
5°	5310	5269	5293
10°	5308	5267	5289
15°	5290	5256	5265
20°	5254	5214	5220
25°	5184	5137	5152
30°	5065	5010	5022
35°	4857	4775	4673
40°	4541	4429	4064
45°	4110	3993	3187
50°	3636	3231	2687
55°	3217	2655	2370
60°	2778	2197	2101
65°	2415	1748	1933
70°	2183	1500	1932
75°	2097	1567	2158
80°	2335	1996	2521
85°	2467	2127	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	4.3
10°-20°	533.8	12.4
20°-30°	798.8	18.6
30°-40°	904.3	21.0
40°-50°	770.2	17.9
50°-60°	521.5	12.1
60°-70°	311.4	7.2
70°-80°	194.5	4.5
80°-90°	82.2	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°	1518.9	35.3
0°-40°	2423.1	56.3
0°-60°	3714.9	86.3
0°-90°	4303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1966	1961	1951	1963	1960	187
15°	1899	1892	1887	1899	1890	536
25°	1746	1741	1730	1738	1735	803
35°	1478	1470	1454	1438	1422	921
45°	1080	1083	1049	894	838	833
55°	686	648	566	505	505	613
65°	379	316	274	294	304	382
75°	202	181	151	198	208	218
85°	80	74	69	87	98	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	1970.6	1965.6	1954.6	1967.6	1965.6
5°	1965.6	1960.6	1950.6	1962.6	1959.6
7.5°	1955.6	1950.6	1941.6	1953.6	1948.6
10°	1942.6	1936.6	1927.7	1940.6	1935.6
12.5°	1922.7	1916.7	1908.7	1921.7	1914.7
15°	1898.7	1891.7	1886.7	1898.7	1889.7
17.5°	1869.8	1863.8	1856.8	1868.8	1858.8
20°	1834.8	1829.8	1820.8	1827.8	1822.8
22.5°	1794.9	1787.9	1778.9	1786.9	1779.9
25°	1746.0	1741.0	1730.0	1738.0	1735.0
27.5°	1690.1	1687.1	1674.1	1684.1	1679.1
30°	1630.2	1622.2	1612.2	1615.2	1616.2
32.5°	1561.3	1551.3	1543.3	1536.3	1529.3
35°	1478.4	1469.5	1453.5	1438.5	1422.5
37.5°	1392.6	1380.6	1364.6	1331.7	1311.7
40°	1292.8	1286.8	1260.8	1214.9	1157.0
42.5°	1190.9	1184.9	1162.0	1059.2	996.3
45°	1080.1	1083.1	1049.2	894.4	837.5
47.5°	974.3	982.3	908.4	763.7	733.7
50°	868.5	877.5	771.7	659.9	641.9
52.5°	775.7	768.7	657.9	579.0	571.0
55°	685.8	647.9	566.0	505.1	505.1
57.5°	594.0	540.1	481.2	442.2	442.2
60°	516.1	449.2	408.3	382.3	390.3
62.5°	444.2	373.4	338.4	333.4	343.4
65°	379.3	316.5	274.5	293.5	303.5
67.5°	326.4	270.5	225.6	265.5	271.5
70°	277.5	235.6	190.7	244.6	245.6
72.5°	232.6	207.6	163.7	221.6	225.6
75°	201.7	180.7	150.7	197.7	207.6
77.5°	176.7	154.7	138.8	170.7	189.7
80°	150.7	126.8	128.8	143.8	162.7
82.5°	115.8	97.8	101.8	117.8	132.8
85°	79.9	73.9	68.9	86.8	97.8
87.5°	42.9	39.9	34.9	48.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)