

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: P291036

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4310.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

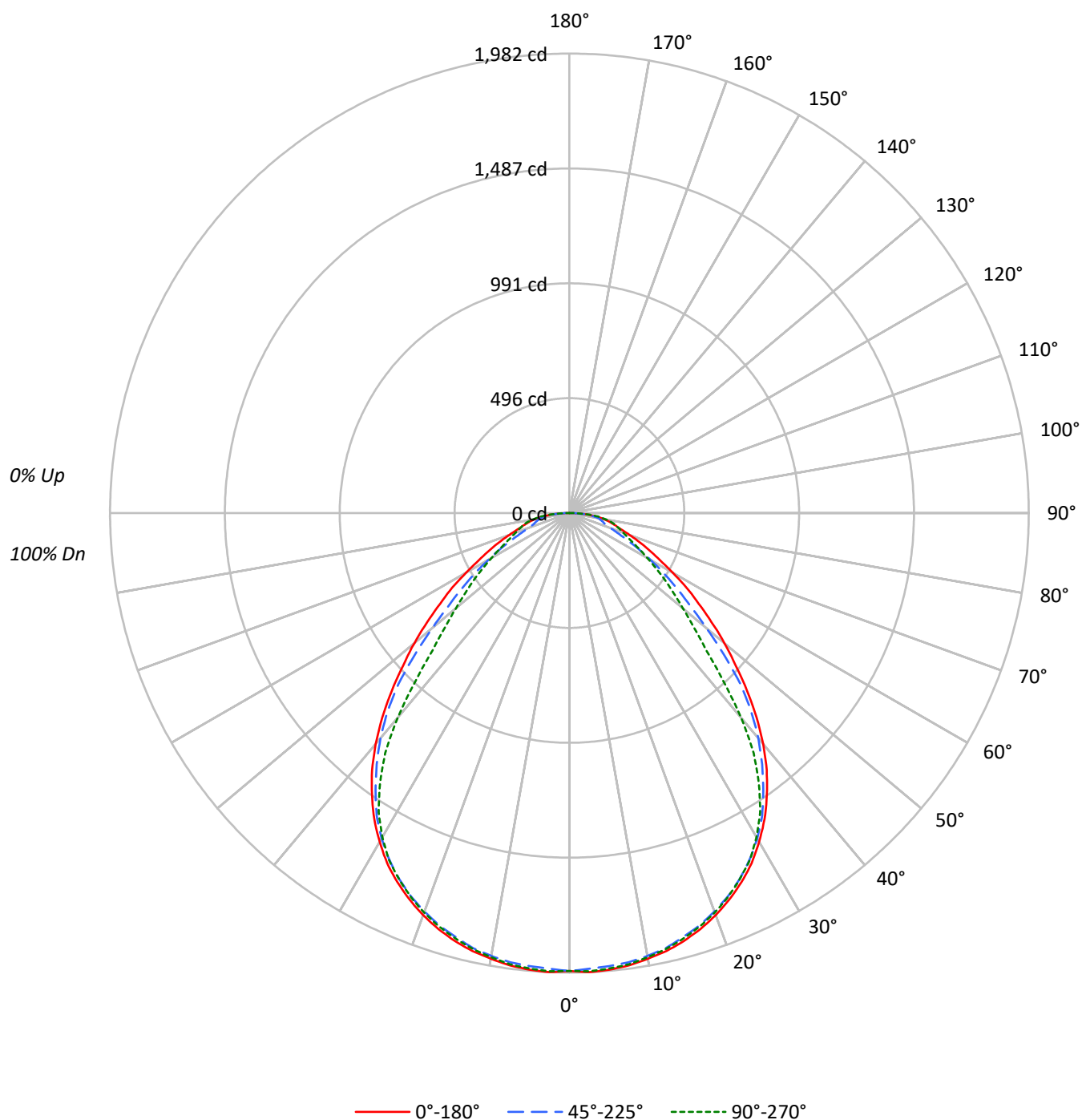
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5315	5315	5315
5°	5340	5300	5327
10°	5334	5301	5315
15°	5324	5276	5293
20°	5286	5237	5252
25°	5216	5166	5169
30°	5089	5036	5014
35°	4880	4791	4683
40°	4568	4452	4051
45°	4126	3970	3166
50°	3659	3223	2678
55°	3194	2644	2362
60°	2769	2176	2085
65°	2429	1747	1925
70°	2166	1481	1938
75°	2113	1562	2165
80°	2343	1970	2483
85°	2442	2103	2905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	4.3
10°-20°	536.8	12.5
20°-30°	803.0	18.6
30°-40°	906.5	21.0
40°-50°	769.0	17.8
50°-60°	520.3	12.1
60°-70°	310.6	7.2
70°-80°	194.5	4.5
80°-90°	81.8	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°	1527.2	35.4
0°-40°	2433.7	56.5
0°-60°	3723.1	86.4
0°-90°	4310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1977	1971	1962	1976	1972	188
15°	1911	1907	1894	1907	1900	539
25°	1757	1751	1740	1748	1741	808
35°	1486	1476	1458	1446	1426	926
45°	1084	1088	1043	894	832	835
55°	681	649	564	504	504	613
65°	381	316	274	292	302	381
75°	203	181	150	198	208	218
85°	79	75	68	88	94	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.0	1975.0	1975.0	1975.0	1975.0
2.5°	1982.0	1976.0	1967.0	1979.0	1978.0
5°	1977.0	1971.0	1962.0	1976.0	1972.0
7.5°	1968.0	1963.0	1954.0	1967.0	1963.0
10°	1952.0	1948.0	1940.0	1951.0	1945.0
12.5°	1935.0	1932.0	1922.0	1932.0	1926.0
15°	1911.0	1907.0	1893.9	1907.0	1900.0
17.5°	1880.9	1875.9	1864.9	1875.9	1869.9
20°	1845.9	1839.9	1828.9	1839.9	1833.9
22.5°	1803.9	1798.9	1788.8	1798.9	1790.8
25°	1756.8	1750.8	1739.8	1747.8	1740.8
27.5°	1702.8	1694.7	1684.7	1690.7	1686.7
30°	1637.7	1627.7	1620.7	1620.7	1613.7
32.5°	1566.6	1559.6	1547.6	1540.6	1531.6
35°	1485.5	1475.5	1458.5	1445.5	1425.5
37.5°	1398.4	1386.4	1365.4	1332.4	1305.3
40°	1300.3	1285.3	1267.3	1202.2	1153.2
42.5°	1195.2	1192.2	1161.2	1050.1	982.0
45°	1084.1	1088.1	1043.1	893.9	831.9
47.5°	972.0	986.0	903.9	757.8	725.7
50°	873.9	878.9	769.8	657.7	639.7
52.5°	772.8	764.8	656.7	578.6	565.6
55°	680.7	648.7	563.6	504.5	503.5
57.5°	599.6	540.6	481.5	437.5	442.5
60°	514.5	448.5	404.4	380.4	387.4
62.5°	439.5	376.4	337.3	330.3	342.4
65°	381.4	316.3	274.3	292.3	302.3
67.5°	326.3	271.3	223.2	266.3	270.3
70°	275.3	235.2	188.2	245.3	246.3
72.5°	233.2	208.2	163.2	222.2	225.2
75°	203.2	181.2	150.2	198.2	208.2
77.5°	178.2	155.2	139.1	171.2	188.2
80°	151.2	125.1	127.1	143.1	160.2
82.5°	116.1	97.1	101.1	118.1	130.1
85°	79.1	75.1	68.1	88.1	94.1
87.5°	42.0	40.0	35.0	50.1	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)