

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: P291040

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291040
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-LD5-43-A-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

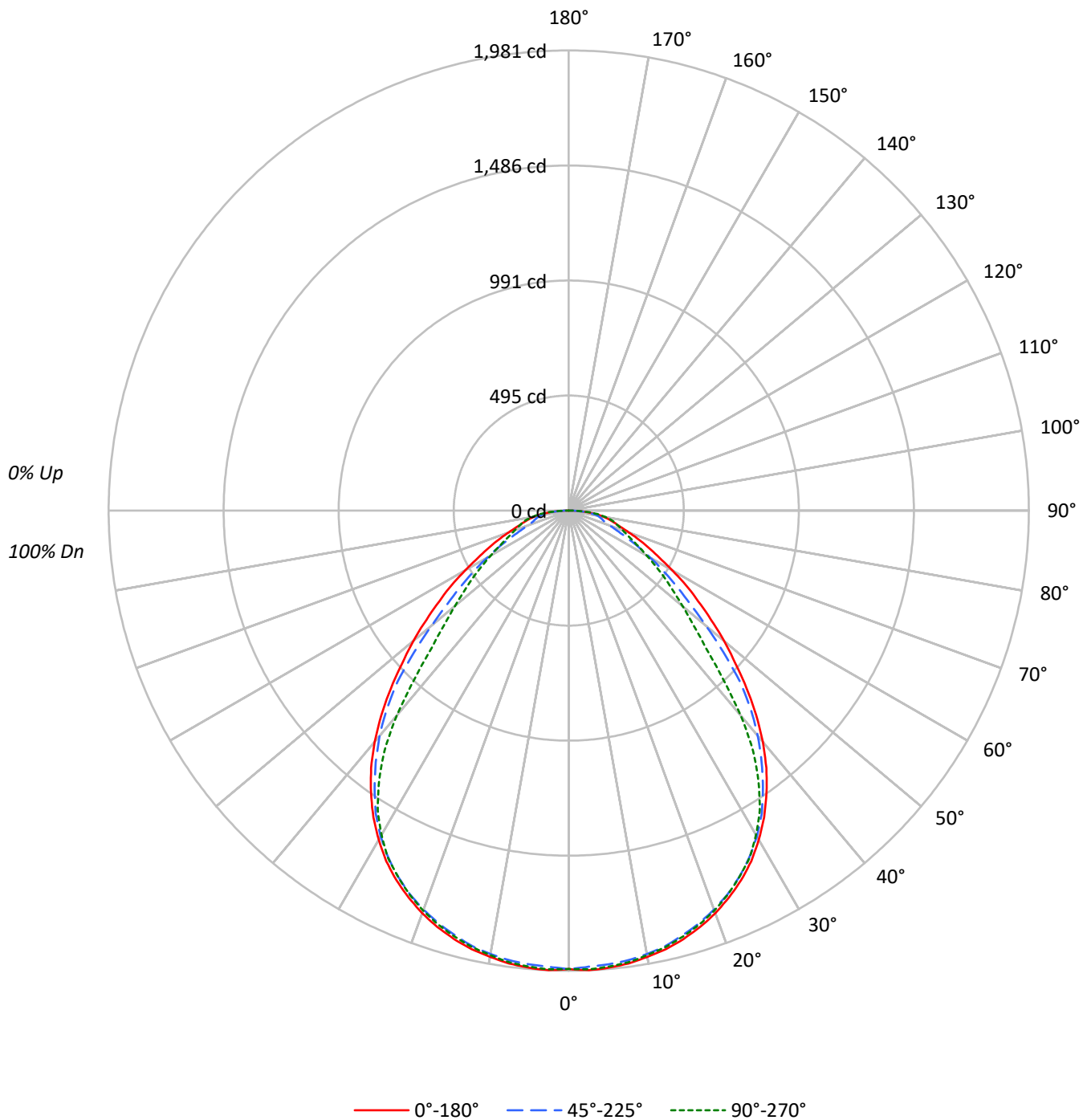
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5311	5311	5311
5°	5337	5296	5323
10°	5330	5297	5311
15°	5320	5273	5289
20°	5282	5234	5248
25°	5213	5162	5165
30°	5085	5032	5010
35°	4877	4788	4680
40°	4565	4449	4048
45°	4123	3967	3164
50°	3656	3221	2676
55°	3191	2642	2361
60°	2767	2175	2083
65°	2427	1745	1924
70°	2164	1480	1936
75°	2112	1561	2164
80°	2342	1968	2481
85°	2439	2100	2902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	4.3
10°-20°	536.4	12.5
20°-30°	802.5	18.6
30°-40°	905.9	21.0
40°-50°	768.5	17.8
50°-60°	520.0	12.1
60°-70°	310.4	7.2
70°-80°	194.4	4.5
80°-90°	81.7	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°	1526.2	35.4
0°-40°	2432.0	56.5
0°-60°	3720.5	86.4
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1976	1970	1961	1975	1971	188
15°	1910	1906	1893	1906	1899	538
25°	1756	1750	1739	1747	1740	807
35°	1484	1474	1458	1444	1424	925
45°	1083	1087	1042	893	831	835
55°	680	648	563	504	503	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°	1973.7	1973.7	1973.7	1973.7	1973.7
2.5°	1980.7	1974.7	1965.7	1977.7	1976.7
5°	1975.7	1969.7	1960.7	1974.7	1970.7
7.5°	1966.7	1961.7	1952.7	1965.7	1961.7
10°	1950.7	1946.6	1938.6	1949.7	1943.6
12.5°	1933.6	1930.6	1920.6	1930.6	1924.6
15°	1909.6	1905.6	1892.6	1905.6	1898.6
17.5°	1879.6	1874.6	1863.6	1874.6	1868.6
20°	1844.6	1838.6	1827.6	1838.6	1832.6
22.5°	1802.6	1797.6	1787.6	1797.6	1789.6
25°	1755.6	1749.6	1738.6	1746.6	1739.6
27.5°	1701.6	1693.6	1683.6	1689.6	1685.6
30°	1636.5	1626.5	1619.5	1619.5	1612.5
32.5°	1565.5	1558.5	1546.5	1539.5	1530.5
35°	1484.5	1474.5	1457.5	1444.5	1424.5
37.5°	1397.5	1385.5	1364.5	1331.4	1304.4
40°	1299.4	1284.4	1266.4	1201.4	1152.4
42.5°	1194.4	1191.4	1160.4	1049.3	981.3
45°	1083.4	1087.4	1042.3	893.3	831.3
47.5°	971.3	985.3	903.3	757.3	725.2
50°	873.3	878.3	769.3	657.2	639.2
52.5°	772.3	764.3	656.2	578.2	565.2
55°	680.2	648.2	563.2	504.2	503.2
57.5°	599.2	540.2	481.2	437.1	442.1
60°	514.2	448.1	404.1	380.1	387.1
62.5°	439.1	376.1	337.1	330.1	342.1
65°	381.1	316.1	274.1	292.1	302.1
67.5°	326.1	271.1	223.1	266.1	270.1
70°	275.1	235.1	188.1	245.1	246.1
72.5°	233.1	208.1	163.1	222.1	225.1
75°	203.1	181.1	150.1	198.1	208.1
77.5°	178.1	155.1	139.0	171.1	188.1
80°	151.1	125.0	127.0	143.0	160.1
82.5°	116.0	97.0	101.0	118.0	130.0
85°	79.0	75.0	68.0	88.0	94.0
87.5°	42.0	40.0	35.0	50.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)