

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: P291220

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291220
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-LD5-36-A125-UNV-L82765-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: 3756.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

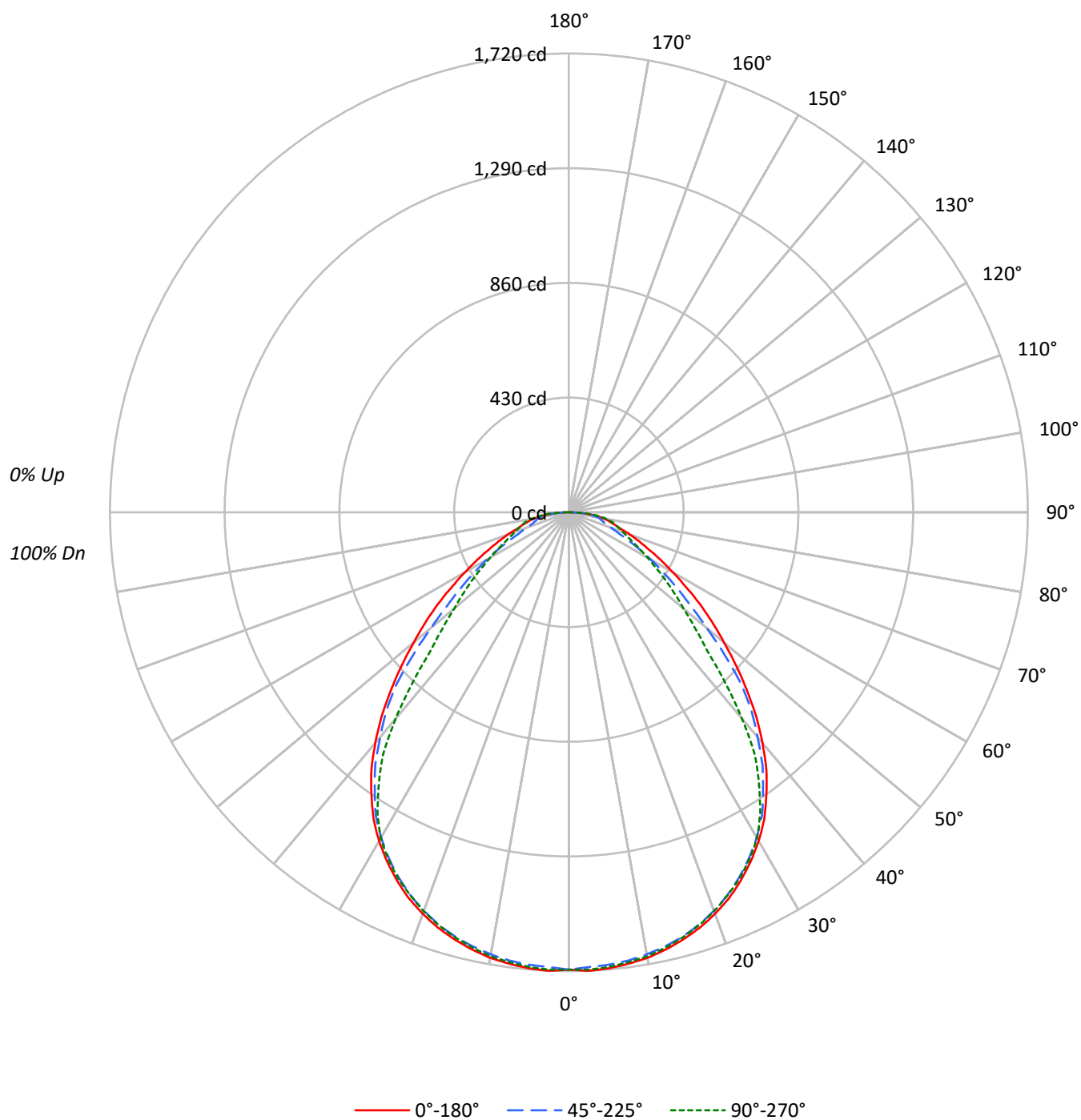
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4612	4612	4612
5°	4635	4599	4621
10°	4633	4598	4617
15°	4617	4588	4595
20°	4586	4552	4556
25°	4525	4484	4497
30°	4421	4373	4383
35°	4239	4168	4079
40°	3964	3866	3548
45°	3588	3485	2782
50°	3174	2820	2346
55°	2808	2318	2069
60°	2425	1918	1834
65°	2108	1526	1687
70°	1906	1309	1687
75°	1830	1368	1884
80°	2039	1742	2201
85°	2152	1856	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	4.3
10°-20°	465.9	12.4
20°-30°	697.3	18.6
30°-40°	789.3	21.0
40°-50°	672.3	17.9
50°-60°	455.2	12.1
60°-70°	271.8	7.2
70°-80°	169.8	4.5
80°-90°	71.8	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°	1325.8	35.3
0°-40°	2115.1	56.3
0°-60°	3242.6	86.3
0°-90°	3756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1716	1711	1703	1713	1710	163
15°	1657	1651	1647	1657	1650	468
25°	1524	1520	1510	1517	1514	701
35°	1290	1283	1269	1256	1242	804
45°	943	945	916	781	731	727
55°	599	566	494	441	441	535
65°	331	276	240	256	265	334
75°	176	158	132	172	181	190
85°	70	64	60	76	85	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.0	1714.0	1714.0	1714.0	1714.0
2.5°	1720.1	1715.7	1706.1	1717.5	1715.7
5°	1715.7	1711.4	1702.7	1713.1	1710.5
7.5°	1707.0	1702.7	1694.8	1705.3	1700.9
10°	1695.7	1690.5	1682.6	1693.9	1689.6
12.5°	1678.3	1673.0	1666.1	1677.4	1671.3
15°	1657.3	1651.2	1646.9	1657.3	1649.5
17.5°	1632.1	1626.8	1620.7	1631.2	1622.5
20°	1601.6	1597.2	1589.4	1595.5	1591.1
22.5°	1566.7	1560.6	1552.8	1559.7	1553.6
25°	1524.0	1519.7	1510.1	1517.1	1514.4
27.5°	1475.2	1472.6	1461.3	1470.0	1465.6
30°	1422.9	1416.0	1407.3	1409.9	1410.7
32.5°	1362.8	1354.1	1347.1	1341.0	1334.9
35°	1290.5	1282.7	1268.7	1255.6	1241.7
37.5°	1215.6	1205.1	1191.2	1162.4	1145.0
40°	1128.4	1123.2	1100.5	1060.5	1009.9
42.5°	1039.5	1034.3	1014.3	924.5	869.6
45°	942.8	945.4	915.8	780.7	731.1
47.5°	850.5	857.4	792.9	666.6	640.5
50°	758.1	765.9	673.6	576.0	560.3
52.5°	677.1	671.0	574.2	505.4	498.4
55°	598.6	565.5	494.1	440.9	440.9
57.5°	518.5	471.4	420.0	386.0	386.0
60°	450.5	392.1	356.4	333.7	340.7
62.5°	387.8	325.9	295.4	291.0	299.8
65°	331.1	276.2	239.6	256.2	264.9
67.5°	284.9	236.1	196.9	231.8	237.0
70°	242.2	205.6	166.4	213.5	214.4
72.5°	203.0	181.2	142.9	193.4	196.9
75°	176.0	157.7	131.6	172.5	181.2
77.5°	154.2	135.1	121.1	149.0	165.6
80°	131.6	110.7	112.4	125.5	142.0
82.5°	101.1	85.4	88.9	102.8	115.9
85°	69.7	64.5	60.1	75.8	85.4
87.5°	37.5	34.9	30.5	42.7	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)