

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: P291234

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291234
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-LD5-43-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

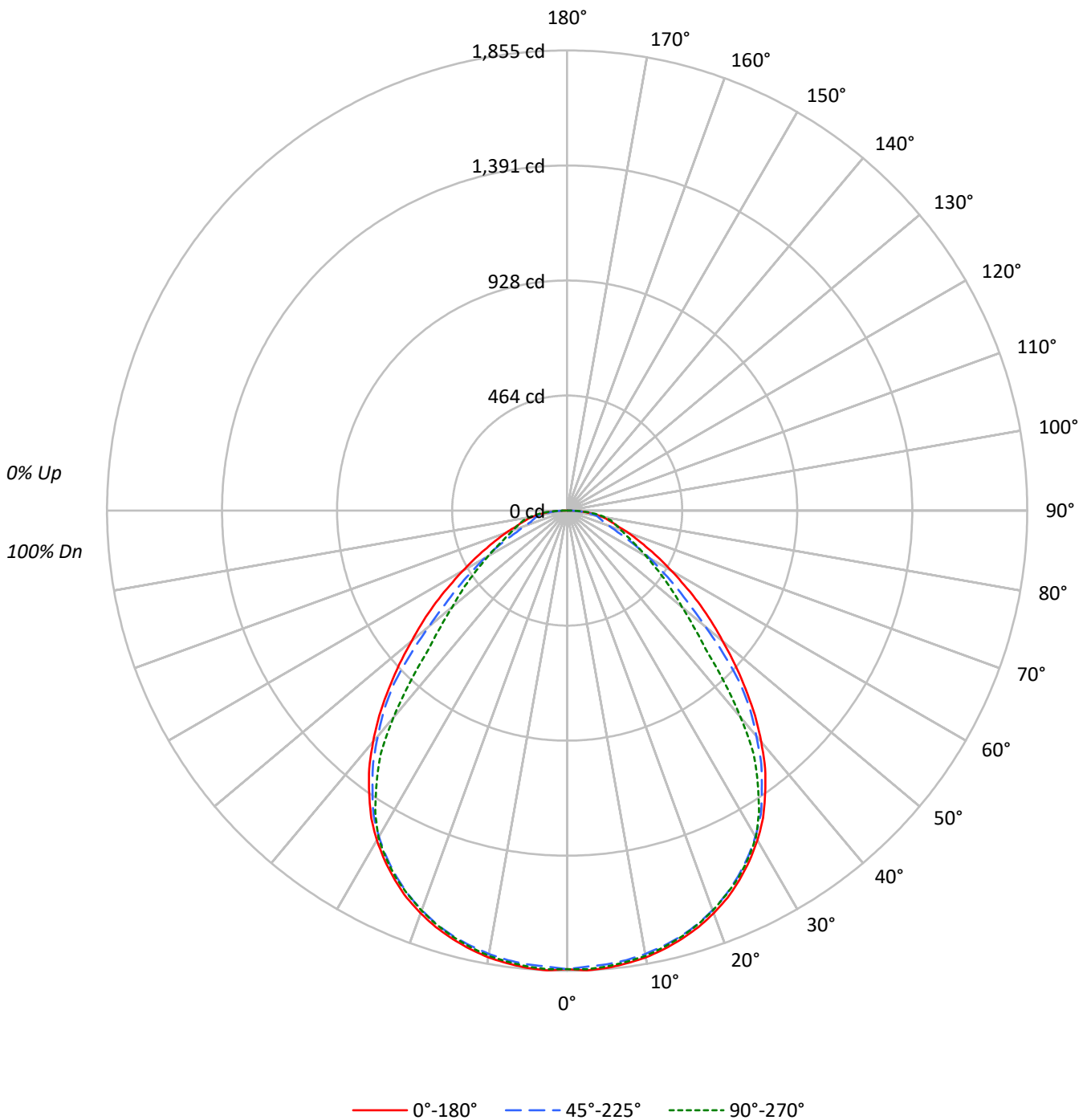
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4975	4975	4975
5°	4999	4961	4983
10°	4997	4959	4979
15°	4980	4948	4956
20°	4947	4909	4914
25°	4880	4836	4850
30°	4769	4716	4728
35°	4573	4495	4399
40°	4275	4170	3826
45°	3870	3759	3001
50°	3423	3041	2530
55°	3029	2500	2231
60°	2615	2069	1978
65°	2274	1645	1819
70°	2056	1412	1819
75°	1973	1475	2033
80°	2199	1878	2374
85°	2322	2001	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	4.3
10°-20°	502.5	12.4
20°-30°	752.1	18.6
30°-40°	851.3	21.0
40°-50°	725.1	17.9
50°-60°	491.0	12.1
60°-70°	293.1	7.2
70°-80°	183.1	4.5
80°-90°	77.4	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°	1429.9	35.3
0°-40°	2281.2	56.3
0°-60°	3497.3	86.3
0°-90°	4051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1850	1846	1836	1848	1845	176
15°	1788	1781	1776	1788	1779	504
25°	1644	1639	1629	1636	1633	756
35°	1392	1383	1368	1354	1339	868
45°	1017	1020	988	842	788	784
55°	646	610	533	476	476	577
65°	357	298	258	276	286	360
75°	190	170	142	186	196	205
85°	75	70	65	82	92	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.6	1848.6	1848.6	1848.6	1848.6
2.5°	1855.2	1850.5	1840.1	1852.4	1850.5
5°	1850.5	1845.8	1836.4	1847.7	1844.8
7.5°	1841.1	1836.4	1827.9	1839.2	1834.5
10°	1828.9	1823.2	1814.8	1827.0	1822.3
12.5°	1810.1	1804.4	1796.9	1809.1	1802.5
15°	1787.5	1780.9	1776.2	1787.5	1779.1
17.5°	1760.3	1754.6	1748.0	1759.3	1749.9
20°	1727.4	1722.7	1714.2	1720.8	1716.1
22.5°	1689.8	1683.2	1674.7	1682.3	1675.7
25°	1643.7	1639.0	1628.7	1636.2	1633.4
27.5°	1591.1	1588.3	1576.1	1585.5	1580.8
30°	1534.7	1527.2	1517.8	1520.6	1521.5
32.5°	1469.9	1460.5	1452.9	1446.4	1439.8
35°	1391.9	1383.4	1368.4	1354.3	1339.2
37.5°	1311.0	1299.8	1284.7	1253.7	1234.9
40°	1217.0	1211.4	1187.0	1143.7	1089.2
42.5°	1121.2	1115.5	1093.9	997.1	937.9
45°	1016.9	1019.7	987.7	842.1	788.5
47.5°	917.3	924.8	855.2	719.0	690.8
50°	817.6	826.1	726.5	621.2	604.3
52.5°	730.2	723.7	619.3	545.1	537.6
55°	645.6	609.9	532.9	475.5	475.5
57.5°	559.2	508.4	453.0	416.3	416.3
60°	485.9	422.9	384.4	359.9	367.5
62.5°	418.2	351.5	318.6	313.9	323.3
65°	357.1	297.9	258.4	276.3	285.7
67.5°	307.3	254.7	212.4	250.0	255.6
70°	261.3	221.8	179.5	230.3	231.2
72.5°	219.0	195.5	154.1	208.6	212.4
75°	189.8	170.1	141.9	186.1	195.5
77.5°	166.3	145.7	130.6	160.7	178.6
80°	141.9	119.4	121.2	135.3	153.2
82.5°	109.0	92.1	95.9	110.9	125.0
85°	75.2	69.5	64.8	81.8	92.1
87.5°	40.4	37.6	32.9	46.1	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)