

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: P291227

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291227
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

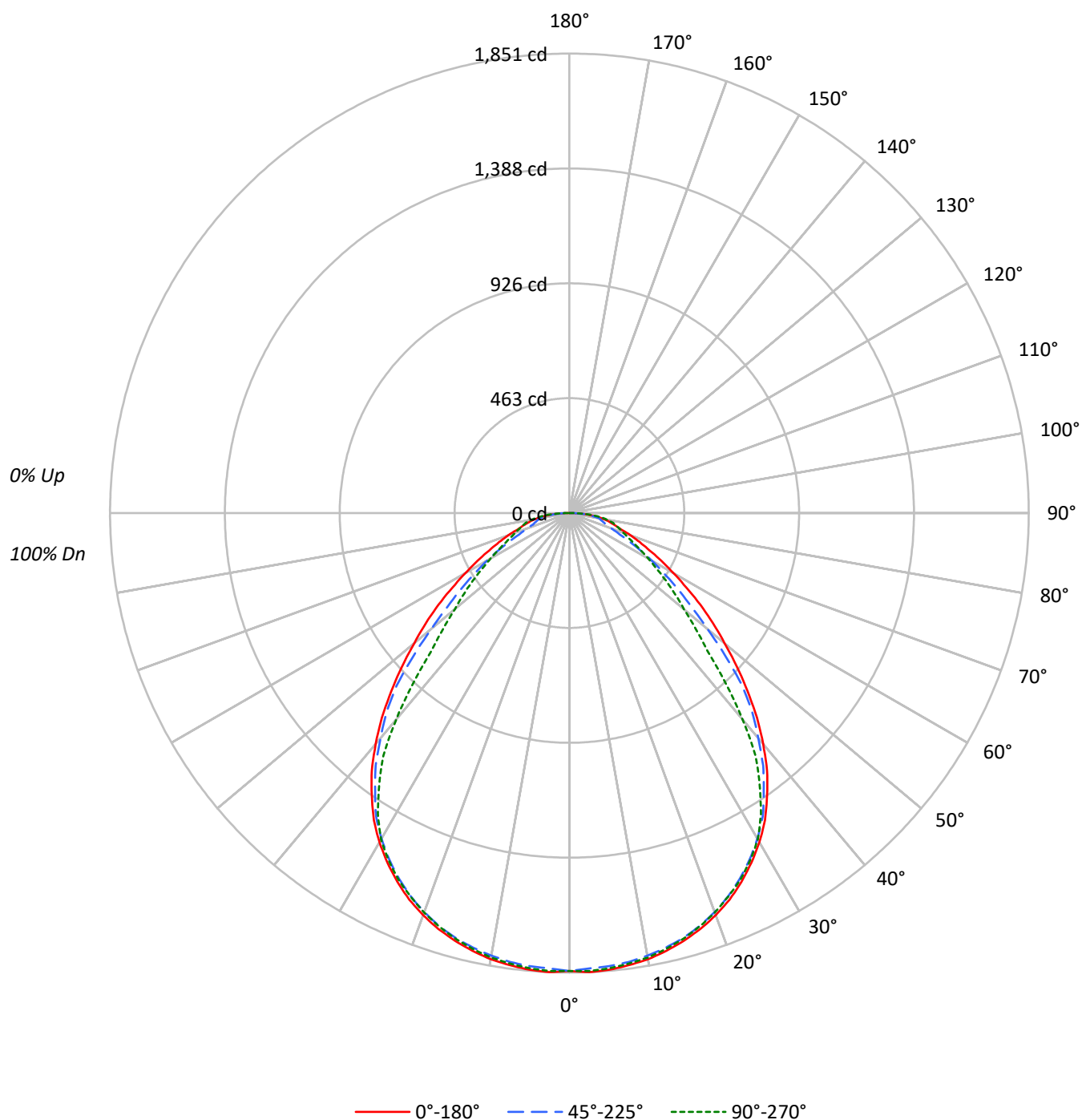
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4964	4964	4964
5°	4988	4950	4972
10°	4986	4948	4968
15°	4969	4937	4945
20°	4936	4898	4903
25°	4870	4825	4839
30°	4758	4706	4717
35°	4562	4485	4390
40°	4266	4160	3818
45°	3861	3750	2994
50°	3415	3035	2524
55°	3022	2495	2226
60°	2609	2064	1973
65°	2269	1642	1815
70°	2051	1409	1815
75°	1969	1472	2027
80°	2194	1875	2368
85°	2316	1998	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	4.3
10°-20°	501.4	12.4
20°-30°	750.4	18.6
30°-40°	849.4	21.0
40°-50°	723.5	17.9
50°-60°	489.9	12.1
60°-70°	292.5	7.2
70°-80°	182.7	4.5
80°-90°	77.2	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°	1426.7	35.3
0°-40°	2276.2	56.3
0°-60°	3489.6	86.3
0°-90°	4042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1846	1842	1832	1844	1841	176
15°	1784	1777	1772	1784	1775	503
25°	1640	1635	1625	1633	1630	754
35°	1389	1380	1365	1351	1336	866
45°	1015	1017	986	840	787	783
55°	644	609	532	474	474	576
65°	356	297	258	276	285	359
75°	189	170	142	186	195	205
85°	75	69	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°	1844.5	1844.5	1844.5	1844.5	1844.5
2.5°	1851.1	1846.4	1836.1	1848.2	1846.4
5°	1846.4	1841.7	1832.3	1843.6	1840.7
7.5°	1837.0	1832.3	1823.9	1835.1	1830.4
10°	1824.8	1819.2	1810.7	1822.9	1818.2
12.5°	1806.0	1800.4	1792.9	1805.1	1798.5
15°	1783.5	1777.0	1772.3	1783.5	1775.1
17.5°	1756.3	1750.7	1744.2	1755.4	1746.0
20°	1723.5	1718.8	1710.4	1717.0	1712.3
22.5°	1686.0	1679.5	1671.0	1678.5	1672.0
25°	1640.1	1635.4	1625.1	1632.6	1629.8
27.5°	1587.6	1584.7	1572.6	1581.9	1577.2
30°	1531.3	1523.8	1514.4	1517.2	1518.2
32.5°	1466.6	1457.2	1449.7	1443.1	1436.6
35°	1388.8	1380.3	1365.3	1351.3	1336.2
37.5°	1308.1	1296.9	1281.9	1250.9	1232.2
40°	1214.3	1208.7	1184.3	1141.2	1086.8
42.5°	1118.7	1113.1	1091.5	994.9	935.8
45°	1014.6	1017.4	985.5	840.2	786.7
47.5°	915.2	922.7	853.3	717.4	689.2
50°	815.8	824.3	724.9	619.8	603.0
52.5°	728.6	722.0	618.0	543.9	536.4
55°	644.2	608.6	531.7	474.5	474.5
57.5°	557.9	507.3	452.0	415.4	415.4
60°	484.8	422.0	383.5	359.1	366.6
62.5°	417.3	350.7	317.9	313.2	322.6
65°	356.3	297.3	257.9	275.7	285.1
67.5°	306.6	254.1	211.9	249.4	255.1
70°	260.7	221.3	179.1	229.7	230.7
72.5°	218.5	195.0	153.8	208.2	211.9
75°	189.4	169.7	141.6	185.7	195.0
77.5°	166.0	145.3	130.3	160.3	178.2
80°	141.6	119.1	121.0	135.0	152.8
82.5°	108.8	91.9	95.6	110.7	124.7
85°	75.0	69.4	64.7	81.6	91.9
87.5°	40.3	37.5	32.8	45.9	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)