

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: P291226

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291226
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

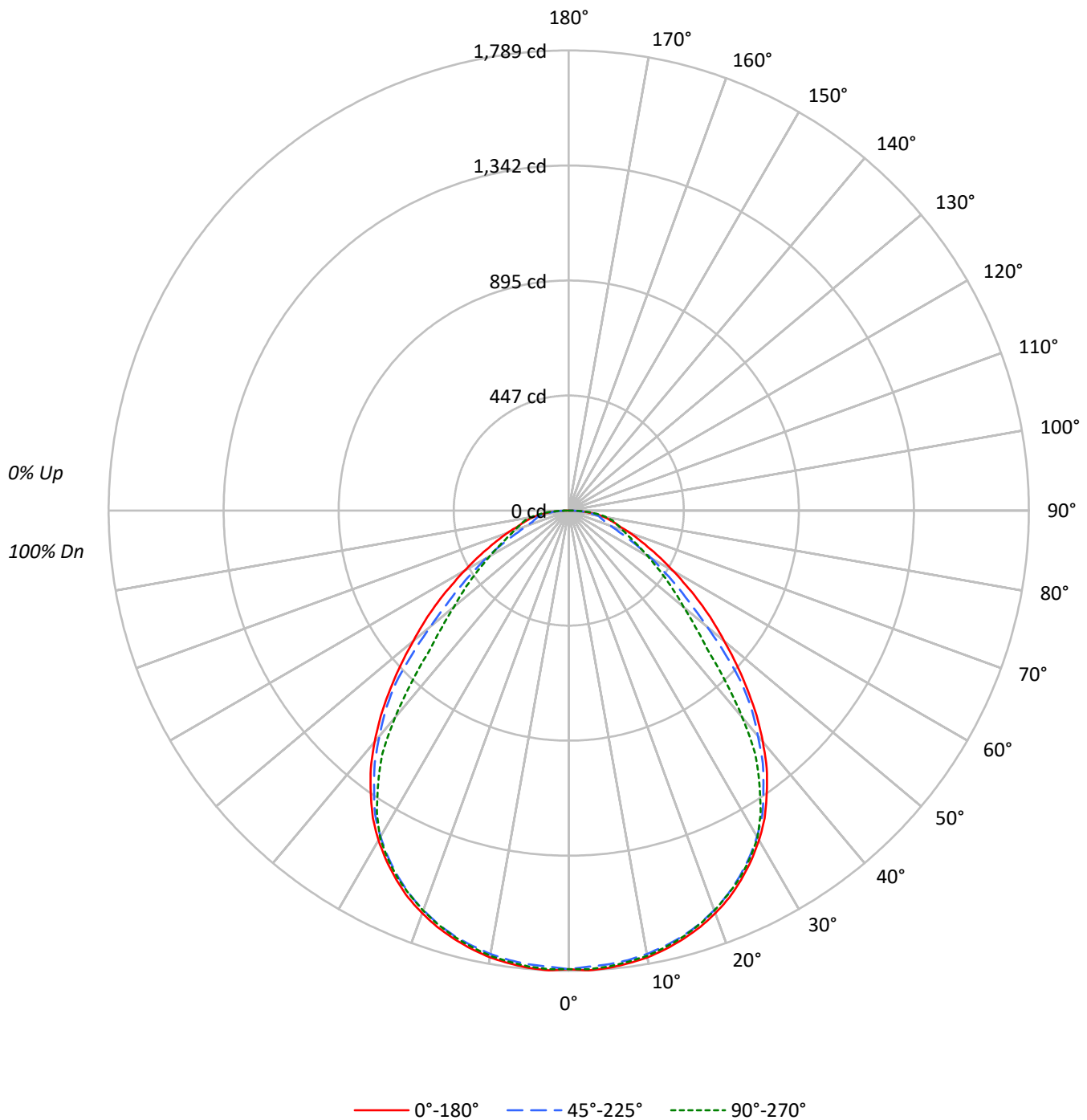
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4798	4798	4798
5°	4821	4784	4806
10°	4820	4783	4802
15°	4803	4773	4780
20°	4771	4735	4740
25°	4707	4664	4677
30°	4599	4548	4560
35°	4410	4335	4243
40°	4123	4021	3690
45°	3732	3625	2894
50°	3301	2933	2440
55°	2921	2411	2152
60°	2522	1995	1907
65°	2193	1587	1754
70°	1983	1362	1755
75°	1904	1423	1960
80°	2122	1812	2289
85°	2238	1930	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	4.3
10°-20°	484.7	12.4
20°-30°	725.3	18.6
30°-40°	821.0	21.0
40°-50°	699.3	17.9
50°-60°	473.5	12.1
60°-70°	282.7	7.2
70°-80°	176.6	4.5
80°-90°	74.7	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°	1379.1	35.3
0°-40°	2200.1	56.3
0°-60°	3373.0	86.3
0°-90°	3907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1785	1780	1771	1782	1779	170
15°	1724	1718	1713	1724	1716	486
25°	1585	1581	1571	1578	1575	729
35°	1342	1334	1320	1306	1292	837
45°	981	983	953	812	760	756
55°	623	588	514	459	459	557
65°	344	287	249	266	276	347
75°	183	164	137	180	188	198
85°	72	67	62	79	89	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.9	1782.9	1782.9	1782.9	1782.9
2.5°	1789.2	1784.7	1774.7	1786.5	1784.7
5°	1784.7	1780.2	1771.1	1782.0	1779.3
7.5°	1775.6	1771.1	1762.9	1773.8	1769.3
10°	1763.9	1758.4	1750.3	1762.0	1757.5
12.5°	1745.7	1740.3	1733.0	1744.8	1738.5
15°	1724.0	1717.6	1713.1	1724.0	1715.8
17.5°	1697.7	1692.2	1685.9	1696.8	1687.7
20°	1666.0	1661.4	1653.3	1659.6	1655.1
22.5°	1629.7	1623.4	1615.2	1622.5	1616.1
25°	1585.3	1580.8	1570.8	1578.0	1575.3
27.5°	1534.5	1531.8	1520.0	1529.1	1524.6
30°	1480.1	1472.9	1463.8	1466.6	1467.5
32.5°	1417.6	1408.5	1401.3	1394.9	1388.6
35°	1342.4	1334.2	1319.7	1306.1	1291.6
37.5°	1264.4	1253.5	1239.0	1209.1	1191.0
40°	1173.8	1168.3	1144.8	1103.1	1050.5
42.5°	1081.3	1075.9	1055.0	961.7	904.6
45°	980.7	983.4	952.6	812.1	760.5
47.5°	884.6	891.9	824.8	693.4	666.2
50°	788.6	796.7	700.6	599.1	582.8
52.5°	704.3	697.9	597.3	525.7	518.5
55°	622.7	588.3	513.9	458.6	458.6
57.5°	539.3	490.4	436.9	401.5	401.5
60°	468.6	407.9	370.7	347.2	354.4
62.5°	403.3	339.0	307.3	302.7	311.8
65°	344.4	287.3	249.3	266.5	275.5
67.5°	296.4	245.6	204.8	241.1	246.5
70°	252.0	213.9	173.1	222.1	223.0
72.5°	211.2	188.5	148.6	201.2	204.8
75°	183.1	164.1	136.9	179.5	188.5
77.5°	160.4	140.5	126.0	155.0	172.2
80°	136.9	115.1	116.9	130.5	147.7
82.5°	105.1	88.8	92.5	107.0	120.6
85°	72.5	67.1	62.5	78.9	88.8
87.5°	39.0	36.3	31.7	44.4	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)