

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: P291271

Luminaire Tested: **14GR-LD5-40-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291271
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-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

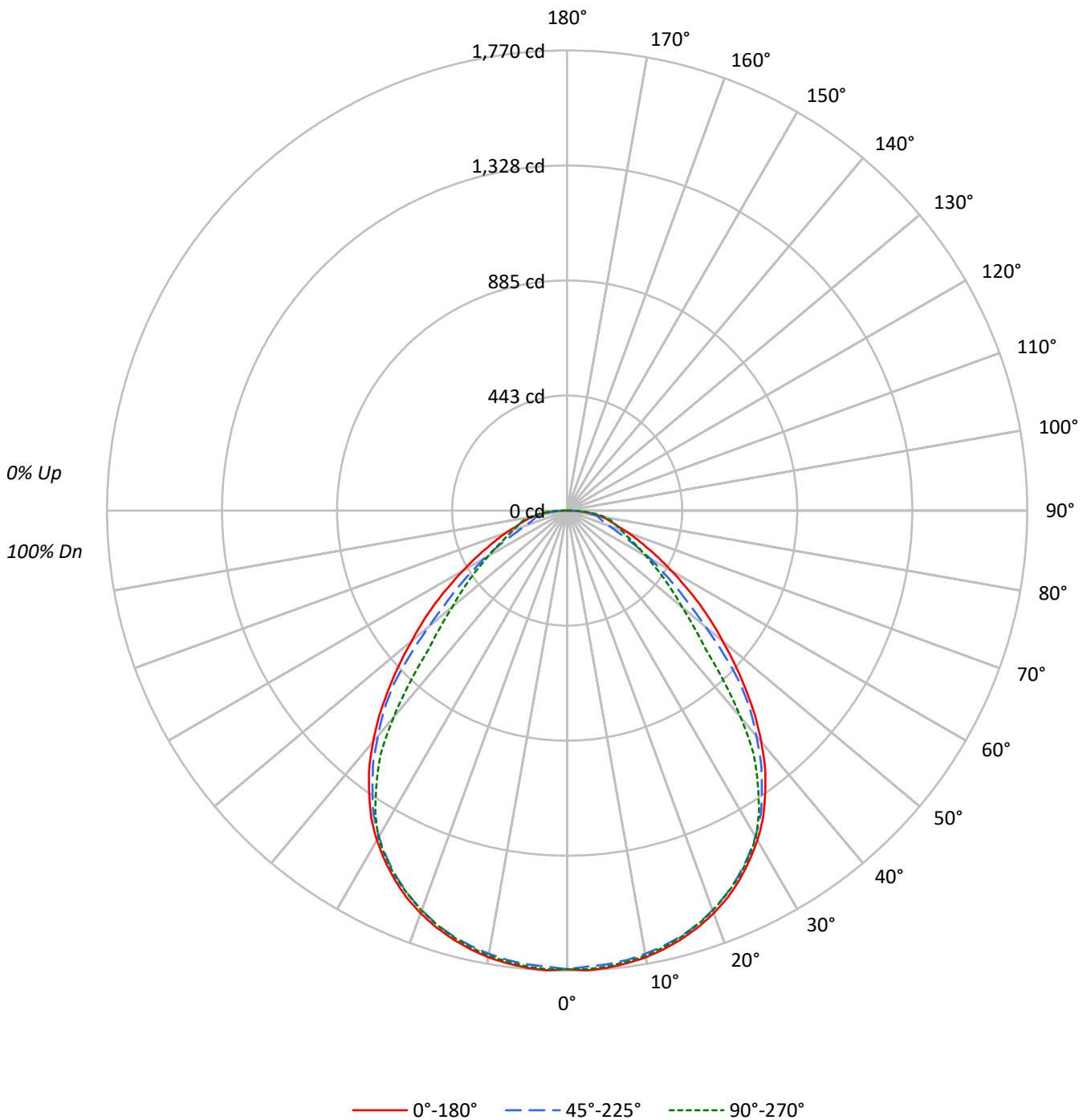
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4746	4746	4746
5°	4769	4733	4754
10°	4768	4731	4751
15°	4751	4721	4729
20°	4720	4684	4689
25°	4657	4614	4627
30°	4550	4500	4511
35°	4362	4289	4197
40°	4079	3978	3651
45°	3692	3586	2863
50°	3266	2902	2413
55°	2890	2385	2129
60°	2495	1974	1887
65°	2169	1570	1736
70°	1961	1348	1736
75°	1883	1408	1939
80°	2098	1793	2266
85°	2214	1911	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.3
10°-20°	479.4	12.4
20°-30°	717.5	18.6
30°-40°	812.2	21.0
40°-50°	691.8	17.9
50°-60°	468.4	12.1
60°-70°	279.7	7.2
70°-80°	174.7	4.5
80°-90°	73.9	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°	1364.3	35.3
0°-40°	2176.5	56.3
0°-60°	3336.8	86.3
0°-90°	3865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1766	1761	1752	1763	1760	168
15°	1705	1699	1695	1705	1697	481
25°	1568	1564	1554	1561	1558	721
35°	1328	1320	1306	1292	1278	828
45°	970	973	942	803	752	748
55°	616	582	508	454	454	551
65°	341	284	247	264	273	343
75°	181	162	135	178	186	196
85°	72	66	62	78	88	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1770.0	1765.5	1755.7	1767.3	1765.5
5°	1765.5	1761.0	1752.1	1762.8	1760.1
7.5°	1756.5	1752.1	1744.0	1754.8	1750.3
10°	1744.9	1739.5	1731.4	1743.1	1738.6
12.5°	1727.0	1721.6	1714.4	1726.1	1719.8
15°	1705.4	1699.2	1694.7	1705.4	1697.4
17.5°	1679.4	1674.1	1667.8	1678.5	1669.6
20°	1648.1	1643.6	1635.5	1641.8	1637.3
22.5°	1612.2	1605.9	1597.8	1605.0	1598.7
25°	1568.3	1563.8	1553.9	1561.1	1558.4
27.5°	1518.0	1515.3	1503.7	1512.7	1508.2
30°	1464.2	1457.1	1448.1	1450.8	1451.7
32.5°	1402.4	1393.4	1386.2	1380.0	1373.7
35°	1327.9	1319.9	1305.5	1292.1	1277.7
37.5°	1250.8	1240.1	1225.7	1196.1	1178.2
40°	1161.2	1155.8	1132.5	1091.2	1039.2
42.5°	1069.7	1064.3	1043.7	951.4	894.9
45°	970.2	972.9	942.4	803.4	752.3
47.5°	875.1	882.3	816.0	685.9	659.0
50°	780.1	788.2	693.1	592.7	576.5
52.5°	696.7	690.4	590.9	520.1	512.9
55°	616.0	581.9	508.4	453.7	453.7
57.5°	533.5	485.1	432.2	397.2	397.2
60°	463.6	403.5	366.7	343.4	350.6
62.5°	399.0	335.3	304.0	299.5	308.4
65°	340.7	284.2	246.6	263.6	272.6
67.5°	293.2	243.0	202.6	238.5	243.9
70°	249.3	211.6	171.3	219.7	220.6
72.5°	208.9	186.5	147.1	199.1	202.6
75°	181.1	162.3	135.4	177.5	186.5
77.5°	158.7	139.0	124.6	153.3	170.4
80°	135.4	113.9	115.7	129.1	146.2
82.5°	104.0	87.9	91.5	105.8	119.3
85°	71.7	66.4	61.9	78.0	87.9
87.5°	38.6	35.9	31.4	43.9	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)