

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: P290786

Luminaire Tested: **14GR-LD5-43-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

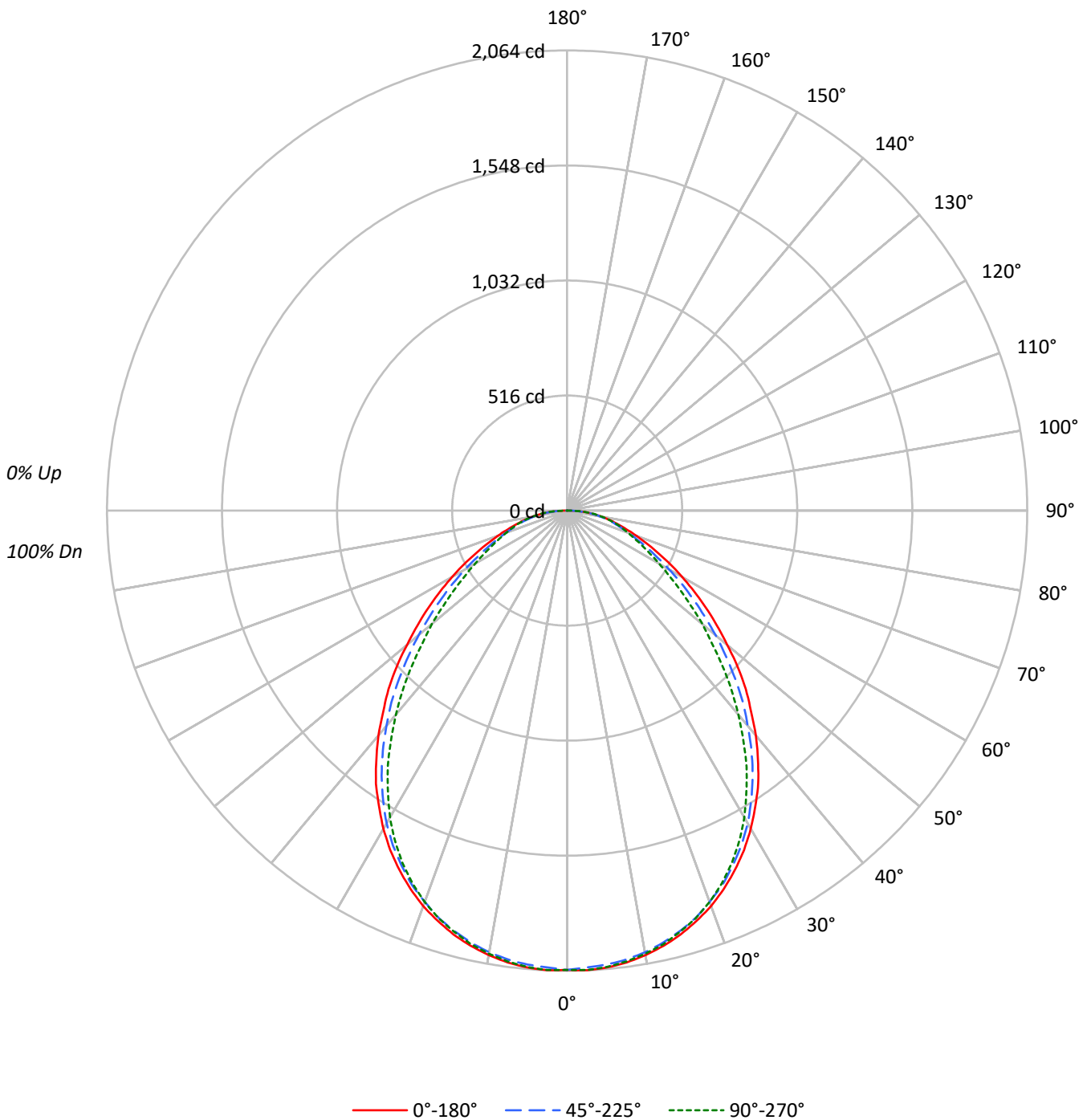
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5544	5544	5544
5°	5557	5522	5551
10°	5532	5497	5514
15°	5483	5441	5450
20°	5406	5347	5350
25°	5283	5218	5183
30°	5120	5033	4938
35°	4911	4768	4611
40°	4626	4427	4195
45°	4313	4053	3751
50°	3922	3636	3313
55°	3570	3224	2888
60°	3202	2840	2565
65°	2855	2530	2357
70°	2596	2306	2280
75°	2427	2246	2359
80°	2439	2321	2456
85°	2547	2381	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	4.2
10°-20°	552.3	11.9
20°-30°	809.8	17.5
30°-40°	903.9	19.5
40°-50°	818.3	17.7
50°-60°	617.9	13.4
60°-70°	403.9	8.7
70°-80°	237.2	5.1
80°-90°	86.8	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°	1557.0	33.7
0°-40°	2460.8	53.2
0°-60°	3897.0	84.3
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2057	2053	2044	2056	2055	195
15°	1968	1965	1953	1964	1956	555
25°	1779	1773	1758	1754	1746	818
35°	1495	1482	1451	1419	1404	931
45°	1133	1116	1065	1007	986	871
55°	761	744	687	633	616	681
65°	448	434	397	374	370	450
75°	233	227	216	220	227	251
85°	82	79	77	87	88	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.4	2060.4	2060.4	2060.4	2060.4
2.5°	2063.7	2060.4	2050.6	2063.7	2062.6
5°	2057.2	2052.8	2044.1	2056.1	2055.0
7.5°	2044.1	2039.8	2031.1	2042.0	2039.8
10°	2024.6	2020.2	2011.6	2023.5	2018.1
12.5°	1999.6	1995.3	1985.5	1996.4	1992.0
15°	1968.1	1964.9	1952.9	1963.8	1956.2
17.5°	1930.1	1924.7	1916.0	1922.5	1917.1
20°	1887.8	1881.3	1867.2	1873.7	1868.3
22.5°	1836.8	1828.1	1818.3	1818.3	1810.7
25°	1779.2	1772.7	1757.5	1754.3	1745.6
27.5°	1717.4	1711.9	1692.4	1687.0	1671.8
30°	1647.9	1640.3	1619.7	1602.3	1589.3
32.5°	1570.8	1565.4	1537.2	1514.4	1495.9
35°	1494.8	1481.8	1451.4	1418.8	1403.6
37.5°	1405.8	1396.0	1358.0	1317.9	1297.3
40°	1316.8	1304.9	1260.3	1215.8	1194.1
42.5°	1220.2	1209.3	1167.0	1113.8	1091.0
45°	1133.3	1116.0	1064.9	1007.4	985.7
47.5°	1037.8	1019.3	965.1	904.3	879.3
50°	936.8	924.9	868.5	809.8	791.4
52.5°	846.7	828.3	775.1	717.6	698.0
55°	761.0	743.6	687.2	632.9	615.5
57.5°	675.2	655.7	606.8	558.0	540.6
60°	594.9	575.4	527.6	487.4	476.6
62.5°	522.2	500.4	458.1	426.6	419.0
65°	448.3	434.2	397.3	374.5	370.2
67.5°	386.5	369.1	339.8	328.9	326.8
70°	330.0	318.1	293.1	289.8	289.8
72.5°	279.0	269.2	250.8	252.9	256.2
75°	233.4	226.9	216.0	220.4	226.9
77.5°	194.3	187.8	181.3	187.8	192.1
80°	157.4	150.9	149.8	155.2	158.5
82.5°	118.3	112.9	114.0	122.7	125.9
85°	82.5	79.2	77.1	86.8	87.9
87.5°	42.3	40.2	39.1	46.7	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)