

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: P290883

Luminaire Tested: **14GR-LD5-43-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290883
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

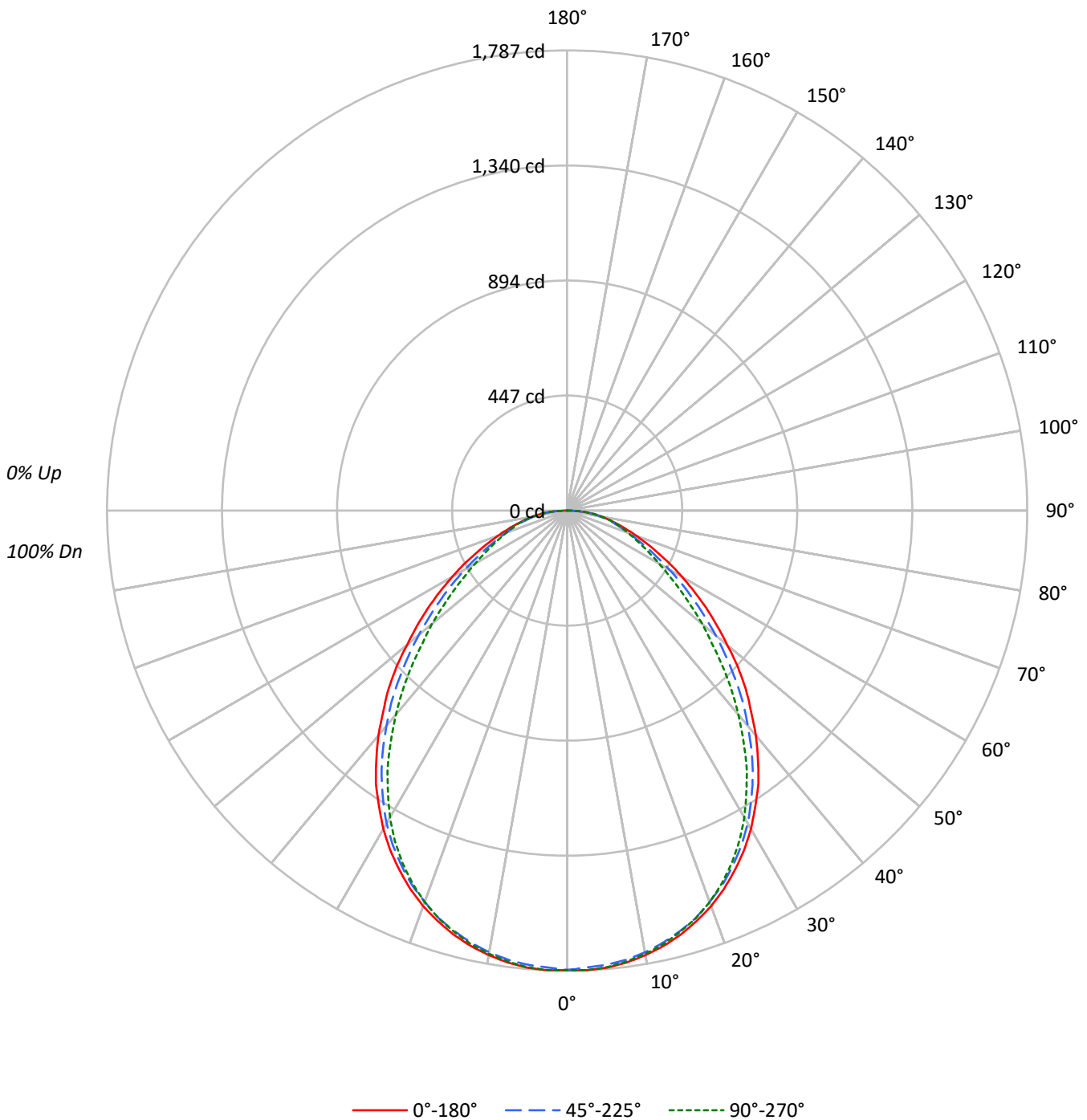
Input Watts (W): 37.479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4801	4801	4801
5°	4812	4781	4807
10°	4791	4760	4775
15°	4748	4711	4719
20°	4681	4630	4633
25°	4575	4519	4488
30°	4434	4358	4276
35°	4252	4129	3993
40°	4006	3834	3632
45°	3735	3510	3248
50°	3396	3148	2869
55°	3092	2791	2501
60°	2772	2459	2221
65°	2472	2191	2041
70°	2249	1997	1975
75°	2101	1945	2043
80°	2112	2010	2126
85°	2205	2059	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.2
10°-20°	478.3	11.9
20°-30°	701.3	17.5
30°-40°	782.7	19.5
40°-50°	708.6	17.7
50°-60°	535.0	13.4
60°-70°	349.8	8.7
70°-80°	205.4	5.1
80°-90°	75.2	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°	1348.2	33.7
0°-40°	2130.9	53.2
0°-60°	3374.6	84.3
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1781	1778	1770	1780	1780	169
15°	1704	1702	1691	1700	1694	480
25°	1541	1535	1522	1519	1512	709
35°	1294	1283	1257	1229	1216	806
45°	981	966	922	872	854	754
55°	659	644	595	548	533	590
65°	388	376	344	324	321	390
75°	202	196	187	191	196	217
85°	71	69	67	75	76	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.2	1784.2	1784.2	1784.2	1784.2
2.5°	1787.0	1784.2	1775.7	1787.0	1786.1
5°	1781.4	1777.6	1770.1	1780.4	1779.5
7.5°	1770.1	1766.3	1758.8	1768.2	1766.3
10°	1753.2	1749.4	1741.9	1752.2	1747.5
12.5°	1731.6	1727.8	1719.3	1728.7	1725.0
15°	1704.3	1701.5	1691.1	1700.5	1694.0
17.5°	1671.4	1666.7	1659.2	1664.8	1660.1
20°	1634.7	1629.1	1616.9	1622.5	1617.8
22.5°	1590.6	1583.0	1574.6	1574.6	1568.0
25°	1540.7	1535.1	1521.9	1519.1	1511.6
27.5°	1487.1	1482.4	1465.5	1460.8	1447.7
30°	1427.0	1420.4	1402.5	1387.5	1376.2
32.5°	1360.2	1355.5	1331.1	1311.4	1295.4
35°	1294.4	1283.2	1256.8	1228.6	1215.5
37.5°	1217.4	1208.9	1176.0	1141.2	1123.4
40°	1140.3	1129.9	1091.4	1052.8	1034.0
42.5°	1056.6	1047.2	1010.5	964.5	944.7
45°	981.4	966.4	922.2	872.4	853.6
47.5°	898.7	882.7	835.7	783.1	761.4
50°	811.3	800.9	752.0	701.3	685.3
52.5°	733.2	717.3	671.2	621.4	604.4
55°	659.0	643.9	595.0	548.0	533.0
57.5°	584.7	567.8	525.5	483.2	468.1
60°	515.1	498.2	456.9	422.1	412.7
62.5°	452.2	433.4	396.7	369.4	362.9
65°	388.2	376.0	344.1	324.3	320.6
67.5°	334.7	319.6	294.2	284.8	283.0
70°	285.8	275.4	253.8	251.0	251.0
72.5°	241.6	233.1	217.1	219.0	221.9
75°	202.1	196.5	187.1	190.8	196.5
77.5°	168.3	162.6	157.0	162.6	166.4
80°	136.3	130.7	129.7	134.4	137.2
82.5°	102.5	97.8	98.7	106.2	109.0
85°	71.4	68.6	66.7	75.2	76.1
87.5°	36.7	34.8	33.8	40.4	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)