

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: P290946

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290946
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

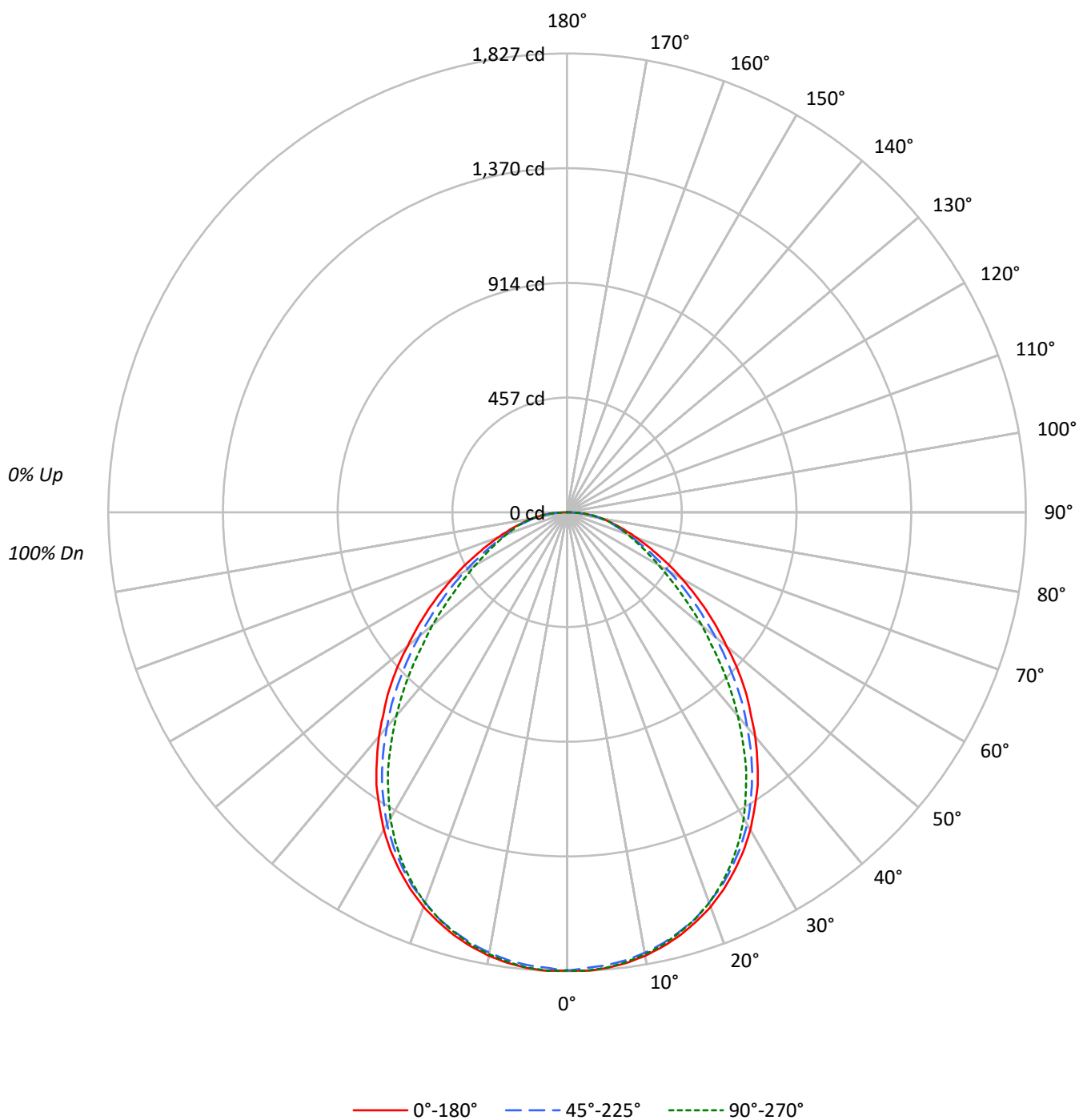
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4909	4909	4909
5°	4920	4889	4915
10°	4898	4867	4882
15°	4855	4817	4825
20°	4787	4734	4737
25°	4678	4620	4589
30°	4534	4456	4372
35°	4348	4222	4083
40°	4096	3920	3714
45°	3819	3588	3321
50°	3473	3219	2933
55°	3161	2854	2557
60°	2835	2514	2271
65°	2528	2240	2087
70°	2299	2042	2019
75°	2149	1989	2089
80°	2160	2055	2174
85°	2254	2106	2405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	4.2
10°-20°	489.0	11.9
20°-30°	717.0	17.5
30°-40°	800.3	19.5
40°-50°	724.5	17.7
50°-60°	547.1	13.4
60°-70°	357.6	8.7
70°-80°	210.0	5.1
80°-90°	76.9	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°	1378.6	33.7
0°-40°	2178.8	53.2
0°-60°	3450.5	84.3
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1824	1824	1824	1824	1824	
5°	1821	1818	1810	1820	1820	173
15°	1743	1740	1729	1739	1732	491
25°	1575	1570	1556	1553	1546	725
35°	1324	1312	1285	1256	1243	824
45°	1004	988	943	892	873	771
55°	674	658	608	560	545	603
65°	397	384	352	332	328	398
75°	207	201	191	195	201	222
85°	73	70	68	77	78	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1824.3	1824.3	1824.3	1824.3	1824.3
2.5°	1827.2	1824.3	1815.6	1827.2	1826.2
5°	1821.4	1817.6	1809.9	1820.5	1819.5
7.5°	1809.9	1806.0	1798.3	1808.0	1806.0
10°	1792.6	1788.7	1781.0	1791.6	1786.8
12.5°	1770.5	1766.6	1758.0	1767.6	1763.7
15°	1742.6	1739.7	1729.1	1738.8	1732.0
17.5°	1709.0	1704.2	1696.5	1702.2	1697.4
20°	1671.5	1665.7	1653.2	1659.0	1654.2
22.5°	1626.3	1618.6	1610.0	1610.0	1603.2
25°	1575.4	1569.6	1556.1	1553.2	1545.6
27.5°	1520.6	1515.8	1498.5	1493.7	1480.2
30°	1459.1	1452.3	1434.1	1418.7	1407.1
32.5°	1390.8	1386.0	1361.0	1340.8	1324.5
35°	1323.5	1312.0	1285.1	1256.2	1242.8
37.5°	1244.7	1236.1	1202.4	1166.9	1148.6
40°	1165.9	1155.3	1115.9	1076.5	1057.3
42.5°	1080.4	1070.7	1033.3	986.2	966.0
45°	1003.5	988.1	942.9	892.0	872.7
47.5°	918.9	902.5	854.5	800.7	778.5
50°	829.5	818.9	768.9	717.0	700.7
52.5°	749.7	733.4	686.3	635.3	618.0
55°	673.8	658.4	608.4	560.4	545.0
57.5°	597.8	580.5	537.3	494.0	478.7
60°	526.7	509.4	467.1	431.6	422.0
62.5°	462.3	443.1	405.6	377.7	371.0
65°	397.0	384.5	351.8	331.6	327.8
67.5°	342.2	326.8	300.8	291.2	289.3
70°	292.2	281.6	259.5	256.6	256.6
72.5°	247.0	238.4	222.0	224.0	226.8
75°	206.7	200.9	191.3	195.1	200.9
77.5°	172.0	166.3	160.5	166.3	170.1
80°	139.4	133.6	132.6	137.4	140.3
82.5°	104.8	100.0	100.9	108.6	111.5
85°	73.0	70.2	68.2	76.9	77.9
87.5°	37.5	35.6	34.6	41.3	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)