

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: P290882

Luminaire Tested: **14GR-LD5-43-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290882
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3709.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

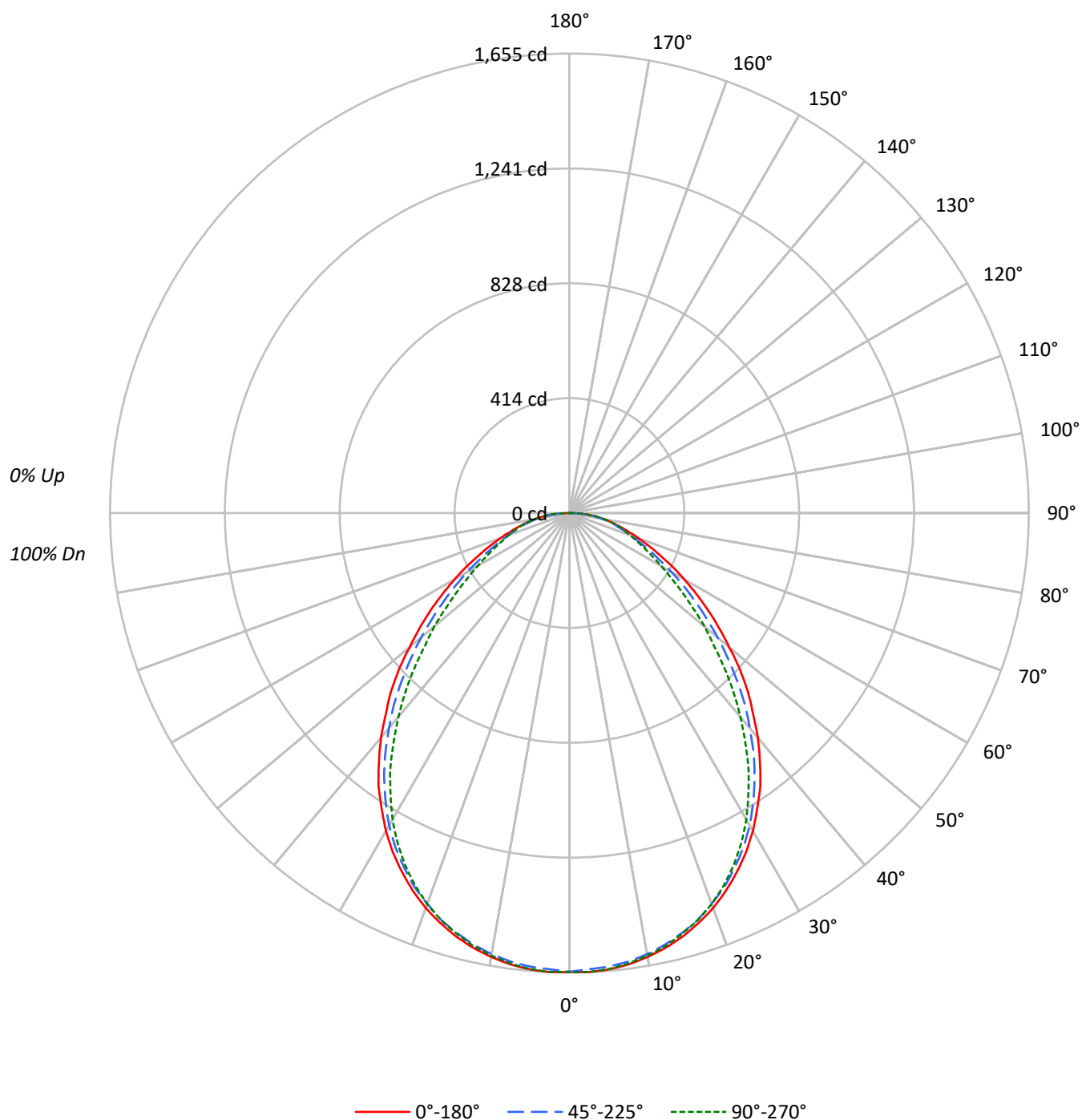
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4446	4446	4446
5°	4456	4428	4452
10°	4436	4408	4422
15°	4397	4363	4371
20°	4335	4288	4290
25°	4237	4185	4157
30°	4106	4036	3960
35°	3938	3824	3698
40°	3710	3550	3364
45°	3459	3250	3008
50°	3145	2916	2657
55°	2863	2586	2316
60°	2568	2277	2057
65°	2289	2029	1890
70°	2083	1850	1828
75°	1946	1801	1891
80°	1956	1861	1970
85°	2044	1908	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	4.2
10°-20°	442.9	11.9
20°-30°	649.4	17.5
30°-40°	724.8	19.5
40°-50°	656.2	17.7
50°-60°	495.5	13.4
60°-70°	323.9	8.7
70°-80°	190.2	5.1
80°-90°	69.6	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°	1248.6	33.7
0°-40°	1973.4	53.2
0°-60°	3125.2	84.3
0°-90°	3709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1650	1646	1639	1649	1648	157
15°	1578	1576	1566	1575	1569	445
25°	1427	1422	1409	1407	1400	656
35°	1199	1188	1164	1138	1126	747
45°	909	895	854	808	790	698
55°	610	596	551	508	494	546
65°	360	348	319	300	297	361
75°	187	182	173	177	182	201
85°	66	64	62	70	70	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.3	1652.3	1652.3	1652.3	1652.3
2.5°	1654.9	1652.3	1644.5	1654.9	1654.1
5°	1649.7	1646.2	1639.3	1648.9	1648.0
7.5°	1639.3	1635.8	1628.8	1637.5	1635.8
10°	1623.6	1620.1	1613.2	1622.7	1618.4
12.5°	1603.6	1600.1	1592.3	1601.0	1597.5
15°	1578.3	1575.7	1566.1	1574.9	1568.8
17.5°	1547.9	1543.5	1536.6	1541.8	1537.4
20°	1513.9	1508.7	1497.4	1502.6	1498.2
22.5°	1473.0	1466.0	1458.2	1458.2	1452.1
25°	1426.9	1421.6	1409.4	1406.8	1399.9
27.5°	1377.2	1372.9	1357.2	1352.9	1340.7
30°	1321.5	1315.4	1298.9	1285.0	1274.5
32.5°	1259.7	1255.4	1232.7	1214.4	1199.6
35°	1198.8	1188.3	1163.9	1137.8	1125.6
37.5°	1127.4	1119.5	1089.1	1056.9	1040.3
40°	1056.0	1046.4	1010.7	975.0	957.6
42.5°	978.5	969.8	935.9	893.2	874.9
45°	908.9	894.9	854.0	807.9	790.5
47.5°	832.3	817.5	773.9	725.2	705.2
50°	751.3	741.7	696.5	649.4	634.6
52.5°	679.0	664.2	621.6	575.4	559.8
55°	610.3	596.3	551.1	507.5	493.6
57.5°	541.5	525.8	486.6	447.5	433.5
60°	477.1	461.4	423.1	390.9	382.2
62.5°	418.7	401.3	367.4	342.1	336.0
65°	359.5	348.2	318.6	300.3	296.9
67.5°	309.9	296.0	272.5	263.8	262.0
70°	264.7	255.1	235.1	232.4	232.4
72.5°	223.7	215.9	201.1	202.8	205.5
75°	187.2	181.9	173.2	176.7	181.9
77.5°	155.8	150.6	145.4	150.6	154.1
80°	126.2	121.0	120.1	124.5	127.1
82.5°	94.9	90.5	91.4	98.4	101.0
85°	66.2	63.6	61.8	69.6	70.5
87.5°	34.0	32.2	31.3	37.4	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)