

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: P290578

Luminaire Tested: **14GR-LD5-36-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F1-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

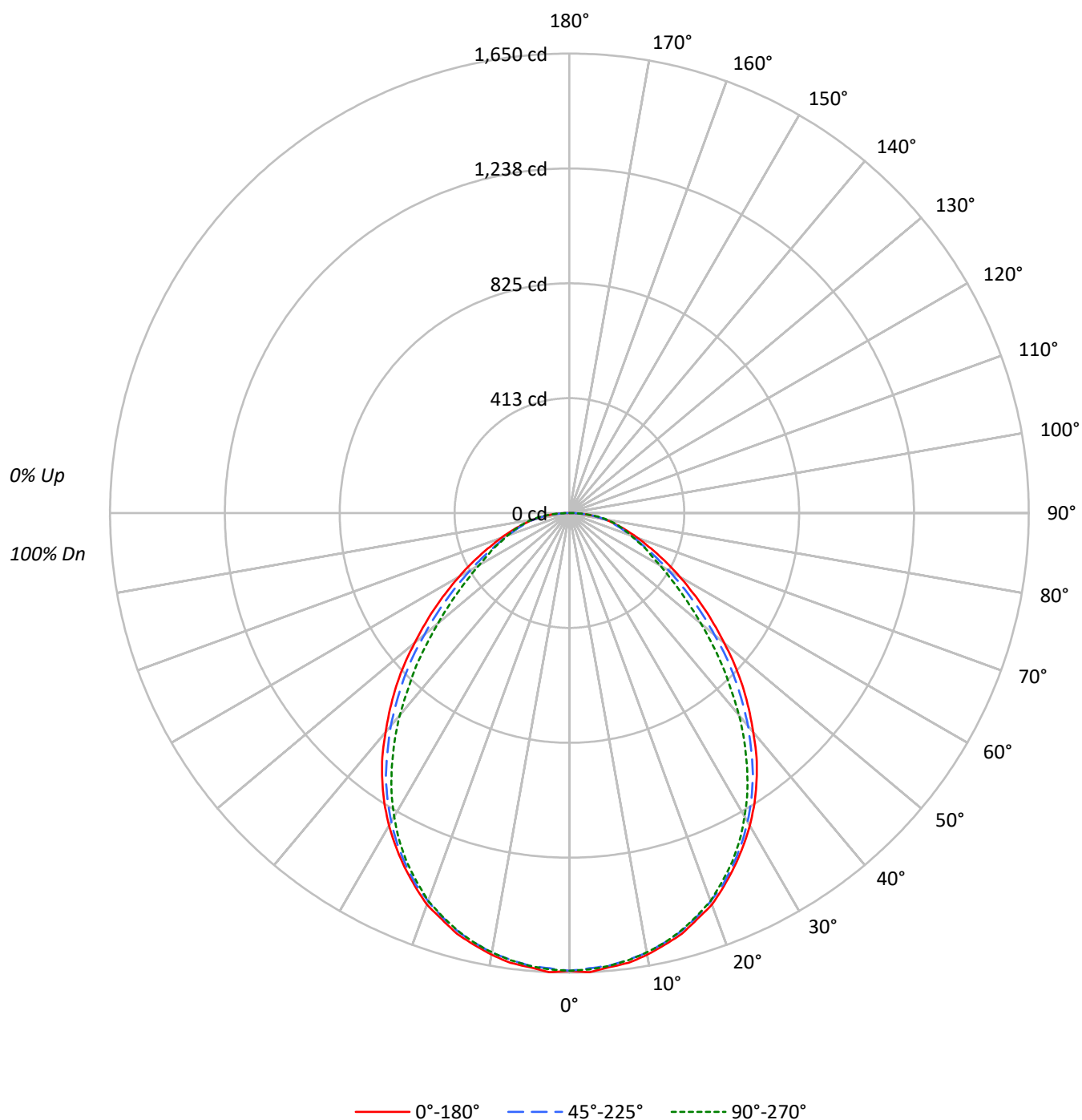
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	4423	4423	4423
5°	4422	4406	4408
10°	4400	4379	4377
15°	4355	4330	4323
20°	4285	4249	4244
25°	4162	4134	4105
30°	4027	3978	3910
35°	3850	3776	3652
40°	3605	3505	3332
45°	3348	3198	2965
50°	3037	2848	2581
55°	2747	2516	2256
60°	2467	2205	2011
65°	2214	1968	1926
70°	2043	1832	1852
75°	1952	1838	1942
80°	1973	1960	2117
85°	2044	2016	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	4.2
10°-20°	438.7	12.0
20°-30°	640.7	17.5
30°-40°	713.9	19.5
40°-50°	643.2	17.6
50°-60°	480.8	13.2
60°-70°	317.2	8.7
70°-80°	193.6	5.3
80°-90°	71.8	2.0
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°	1234.5	33.8
0°-40°	1948.4	53.3
0°-60°	3072.4	84.1
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1637	1635	1631	1640	1632	156
15°	1563	1558	1554	1563	1552	440
25°	1402	1397	1392	1395	1382	645
35°	1172	1162	1149	1129	1112	731
45°	880	870	840	802	779	677
55°	586	576	536	492	481	525
65°	348	337	309	297	302	349
75°	188	184	177	183	187	200
85°	66	64	65	72	73	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1650.4	1642.9	1636.2	1646.3	1640.4
5°	1637.0	1635.4	1631.2	1639.6	1632.0
7.5°	1628.7	1622.8	1617.8	1627.8	1619.4
10°	1610.2	1606.9	1602.7	1611.1	1601.9
12.5°	1587.6	1584.3	1580.1	1590.1	1580.1
15°	1563.3	1557.5	1554.1	1563.3	1551.6
17.5°	1528.1	1525.6	1520.6	1529.8	1518.1
20°	1496.3	1487.1	1483.7	1490.4	1482.1
22.5°	1450.2	1443.5	1442.7	1446.9	1432.6
25°	1401.6	1396.6	1392.4	1394.9	1382.4
27.5°	1350.5	1343.8	1338.8	1338.0	1324.5
30°	1296.1	1287.7	1280.1	1273.4	1258.4
32.5°	1236.6	1226.5	1216.5	1205.6	1189.7
35°	1172.1	1162.0	1149.4	1129.3	1111.7
37.5°	1104.2	1092.5	1072.4	1048.9	1031.3
40°	1026.3	1020.4	997.8	967.6	948.4
42.5°	953.4	946.7	918.2	884.7	858.7
45°	879.7	870.5	840.3	801.8	779.1
47.5°	804.3	795.1	761.6	713.8	693.7
50°	725.5	720.5	680.3	636.7	616.6
52.5°	653.5	647.6	606.6	563.0	544.6
55°	585.6	576.4	536.2	491.8	480.9
57.5°	517.8	507.7	470.0	432.3	424.8
60°	458.3	445.7	409.7	380.4	373.7
62.5°	402.1	387.9	357.7	335.1	331.8
65°	347.7	336.8	309.1	296.6	302.4
67.5°	300.8	289.9	269.8	264.7	263.1
70°	259.7	249.7	232.9	234.6	235.4
72.5°	222.0	216.2	203.6	207.8	211.1
75°	187.7	184.3	176.8	182.6	186.8
77.5°	156.7	154.2	150.8	155.8	162.5
80°	127.3	125.7	126.5	129.9	136.6
82.5°	98.0	94.7	97.2	103.9	108.1
85°	66.2	63.7	65.3	72.1	72.9
87.5°	31.0	31.0	30.2	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)