

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: P290733

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290733
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

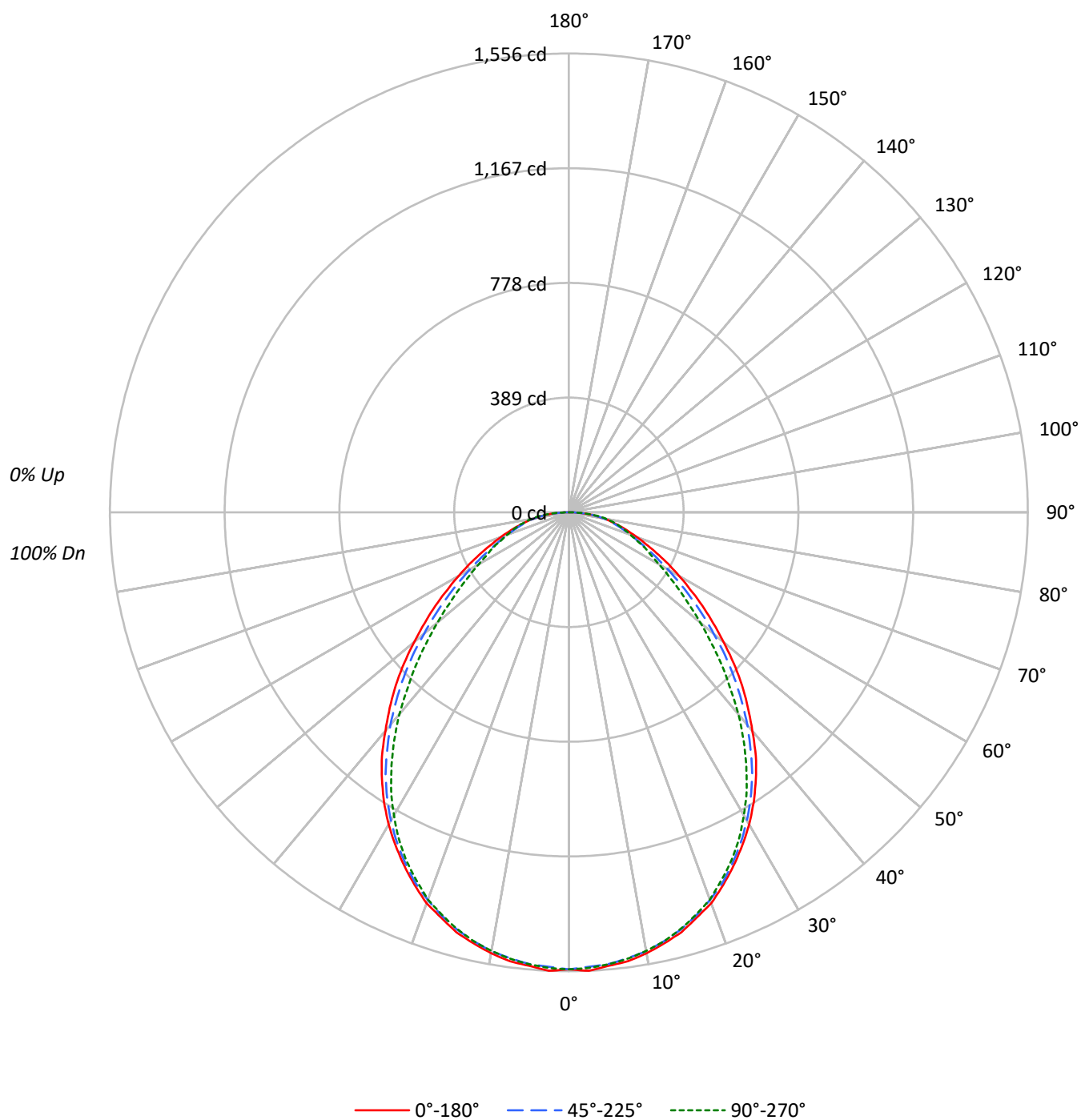
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4170	4170	4170
5°	4169	4154	4156
10°	4148	4129	4127
15°	4106	4082	4076
20°	4040	4006	4001
25°	3924	3898	3870
30°	3797	3750	3686
35°	3630	3560	3443
40°	3399	3305	3141
45°	3156	3015	2796
50°	2864	2685	2434
55°	2590	2372	2127
60°	2326	2079	1896
65°	2087	1856	1815
70°	1927	1728	1747
75°	1839	1733	1831
80°	1861	1849	1996
85°	1927	1902	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	4.2
10°-20°	413.6	12.0
20°-30°	604.0	17.5
30°-40°	673.1	19.5
40°-50°	606.4	17.6
50°-60°	453.3	13.2
60°-70°	299.0	8.7
70°-80°	182.5	5.3
80°-90°	67.7	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°	1163.9	33.8
0°-40°	1837.0	53.3
0°-60°	2896.7	84.1
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1543	1542	1538	1546	1539	147
15°	1474	1468	1465	1474	1463	415
25°	1322	1317	1313	1315	1303	608
35°	1105	1096	1084	1065	1048	689
45°	829	821	792	756	735	638
55°	552	543	506	464	453	494
65°	328	318	292	280	285	329
75°	177	174	167	172	176	189
85°	62	60	62	68	69	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.8	1549.8	1549.8	1549.8	1549.8
2.5°	1556.1	1549.0	1542.6	1552.1	1546.6
5°	1543.4	1541.9	1537.9	1545.8	1538.7
7.5°	1535.5	1530.0	1525.3	1534.7	1526.8
10°	1518.2	1515.0	1511.0	1518.9	1510.3
12.5°	1496.8	1493.7	1489.7	1499.2	1489.7
15°	1473.9	1468.4	1465.2	1473.9	1462.9
17.5°	1440.7	1438.4	1433.6	1442.3	1431.3
20°	1410.7	1402.0	1398.9	1405.2	1397.3
22.5°	1367.3	1361.0	1360.2	1364.1	1350.7
25°	1321.5	1316.7	1312.8	1315.2	1303.3
27.5°	1273.3	1267.0	1262.2	1261.4	1248.8
30°	1222.0	1214.1	1206.9	1200.6	1186.4
32.5°	1165.9	1156.4	1146.9	1136.6	1121.6
35°	1105.0	1095.6	1083.7	1064.8	1048.2
37.5°	1041.1	1030.0	1011.1	988.9	972.3
40°	967.6	962.1	940.8	912.3	894.1
42.5°	898.9	892.6	865.7	834.1	809.6
45°	829.4	820.7	792.3	755.9	734.6
47.5°	758.3	749.6	718.0	673.0	654.0
50°	684.0	679.3	641.4	600.3	581.4
52.5°	616.1	610.6	571.9	530.8	513.4
55°	552.1	543.4	505.5	463.7	453.4
57.5°	488.1	478.7	443.1	407.6	400.5
60°	432.1	420.2	386.3	358.6	352.3
62.5°	379.1	365.7	337.3	316.0	312.8
65°	327.8	317.5	291.5	279.6	285.1
67.5°	283.6	273.3	254.3	249.6	248.0
70°	244.9	235.4	219.6	221.2	222.0
72.5°	209.3	203.8	191.9	195.9	199.1
75°	176.9	173.8	166.7	172.2	176.1
77.5°	147.7	145.3	142.2	146.9	153.2
80°	120.1	118.5	119.3	122.4	128.8
82.5°	92.4	89.3	91.6	97.9	101.9
85°	62.4	60.0	61.6	67.9	68.7
87.5°	29.2	29.2	28.4	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)