

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: P290734

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290734
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

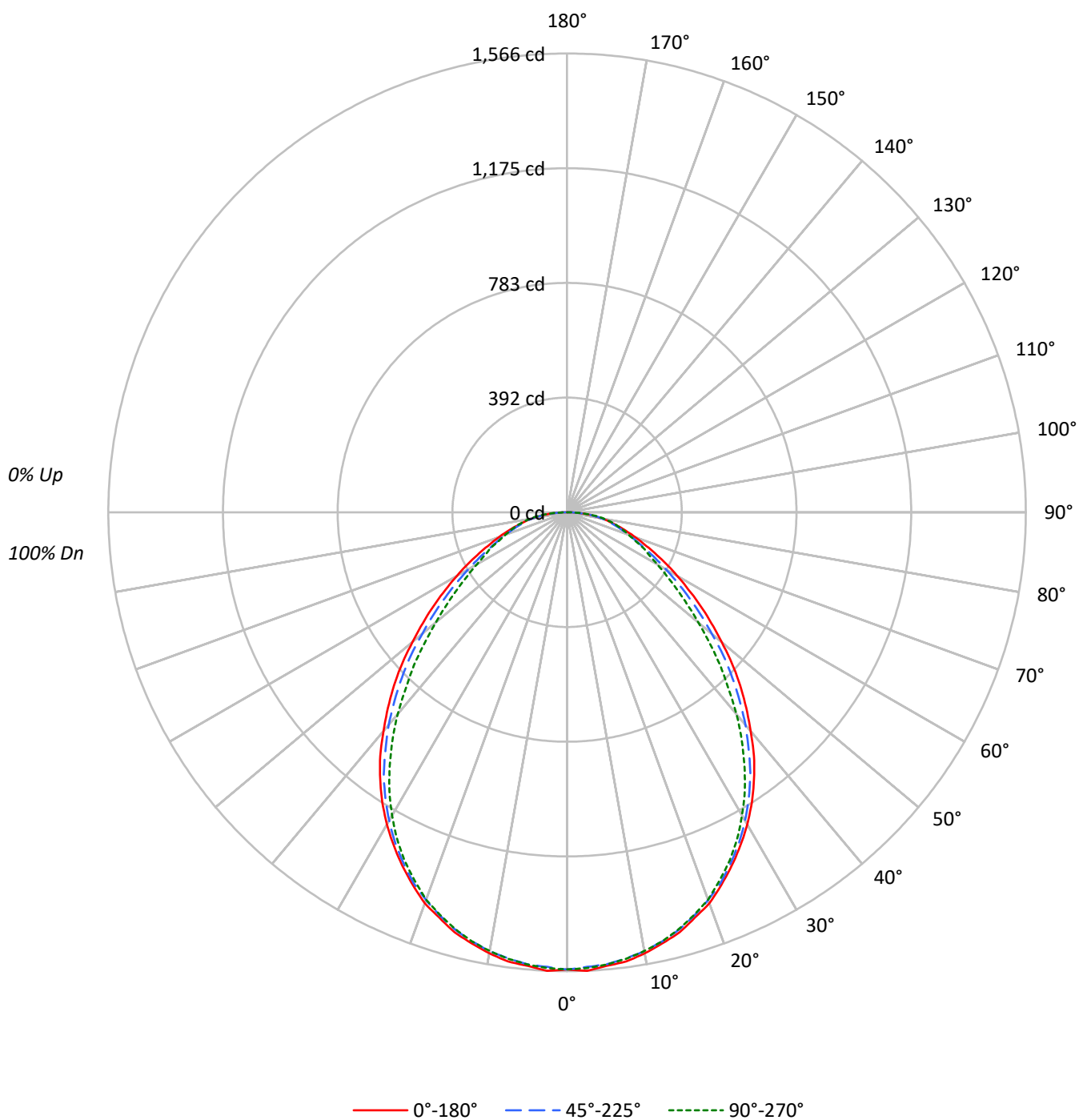
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4198	4198	4198
5°	4197	4182	4184
10°	4176	4156	4154
15°	4134	4109	4103
20°	4067	4033	4028
25°	3950	3924	3896
30°	3822	3775	3711
35°	3654	3584	3466
40°	3422	3327	3162
45°	3177	3035	2814
50°	2883	2703	2450
55°	2608	2388	2141
60°	2341	2093	1908
65°	2101	1868	1828
70°	1939	1740	1758
75°	1852	1745	1843
80°	1874	1861	2008
85°	1939	1914	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	4.2
10°-20°	416.4	12.0
20°-30°	608.0	17.5
30°-40°	677.5	19.5
40°-50°	610.5	17.6
50°-60°	456.3	13.2
60°-70°	301.0	8.7
70°-80°	183.8	5.3
80°-90°	68.2	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°	1171.7	33.8
0°-40°	1849.2	53.3
0°-60°	2916.1	84.1
0°-90°	3469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1554	1552	1548	1556	1549	148
15°	1484	1478	1475	1484	1473	418
25°	1330	1326	1322	1324	1312	612
35°	1112	1103	1091	1072	1055	694
45°	835	826	798	761	740	643
55°	556	547	509	467	456	498
65°	330	320	293	282	287	331
75°	178	175	168	173	177	190
85°	63	60	62	68	69	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	1566.5	1559.3	1552.9	1562.5	1556.9
5°	1553.7	1552.1	1548.2	1556.1	1549.0
7.5°	1545.8	1540.2	1535.4	1545.0	1537.0
10°	1528.3	1525.1	1521.1	1529.1	1520.3
12.5°	1506.8	1503.6	1499.7	1509.2	1499.7
15°	1483.8	1478.2	1475.0	1483.8	1472.6
17.5°	1450.4	1448.0	1443.2	1452.0	1440.8
20°	1420.1	1411.4	1408.2	1414.6	1406.6
22.5°	1376.4	1370.1	1369.3	1373.2	1359.7
25°	1330.3	1325.5	1321.6	1323.9	1312.0
27.5°	1281.8	1275.4	1270.7	1269.9	1257.1
30°	1230.1	1222.2	1215.0	1208.6	1194.3
32.5°	1173.7	1164.1	1154.6	1144.2	1129.1
35°	1112.4	1102.9	1091.0	1071.9	1055.2
37.5°	1048.0	1036.9	1017.8	995.5	978.8
40°	974.1	968.5	947.0	918.4	900.1
42.5°	904.9	898.5	871.5	839.7	815.0
45°	834.9	826.2	797.5	761.0	739.5
47.5°	763.4	754.6	722.8	677.5	658.4
50°	688.6	683.8	645.7	604.3	585.2
52.5°	620.2	614.7	575.7	534.3	516.9
55°	555.8	547.1	508.9	466.8	456.4
57.5°	491.4	481.9	446.1	410.3	403.1
60°	435.0	423.0	388.8	361.0	354.6
62.5°	381.7	368.2	339.5	318.1	314.9
65°	330.0	319.7	293.4	281.5	287.1
67.5°	285.5	275.1	256.0	251.3	249.7
70°	246.5	237.0	221.1	222.6	223.4
72.5°	210.7	205.2	193.2	197.2	200.4
75°	178.1	174.9	167.8	173.3	177.3
77.5°	148.7	146.3	143.1	147.9	154.3
80°	120.9	119.3	120.1	123.2	129.6
82.5°	93.0	89.9	92.2	98.6	102.6
85°	62.8	60.4	62.0	68.4	69.2
87.5°	29.4	29.4	28.6	33.4	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)