

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: P290724

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290724
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-LD5-32-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: 3083.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

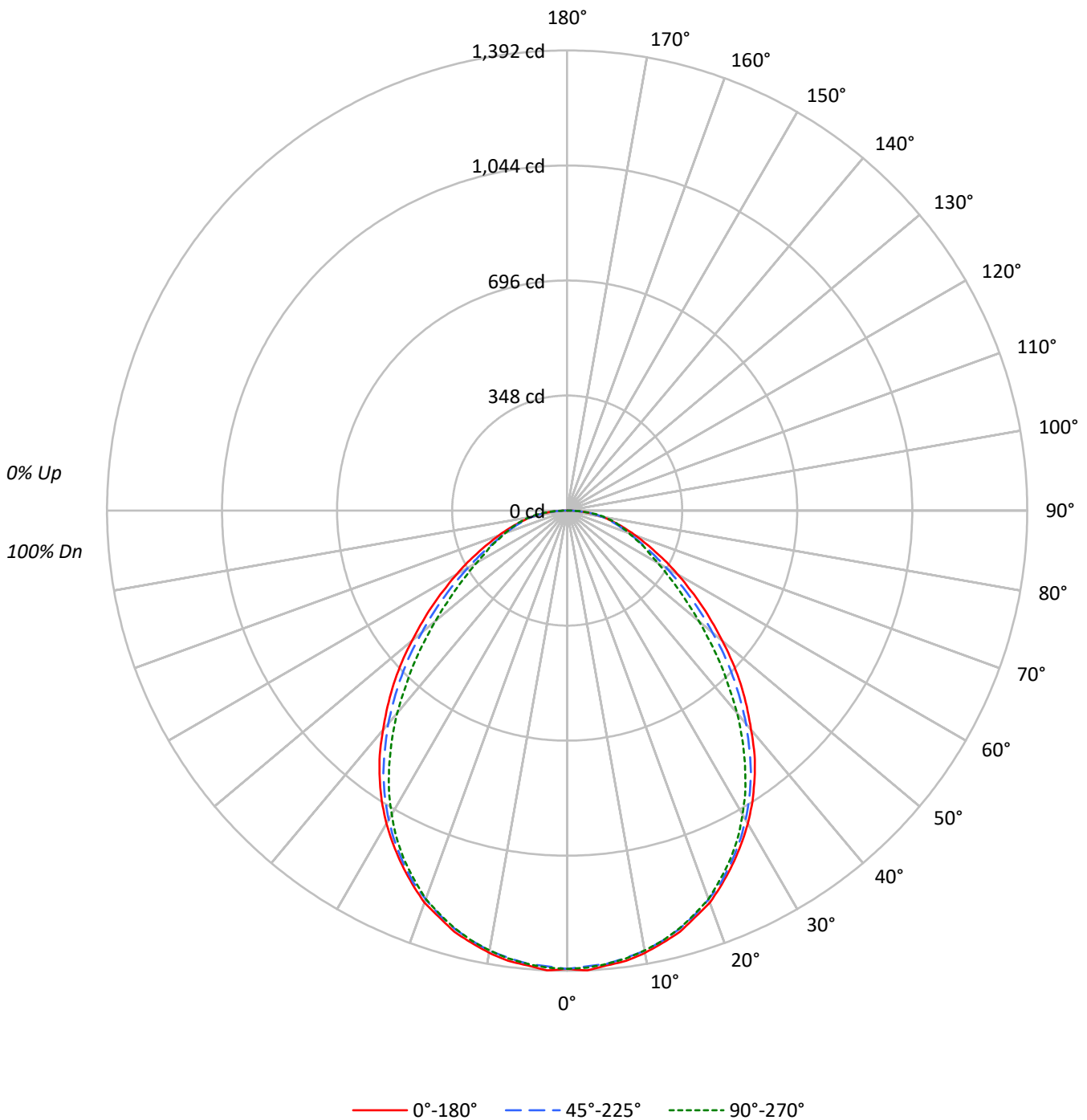
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3731	3731	3731
5°	3730	3717	3719
10°	3711	3694	3692
15°	3674	3652	3646
20°	3614	3584	3580
25°	3510	3487	3462
30°	3397	3355	3298
35°	3248	3185	3081
40°	3041	2957	2810
45°	2824	2697	2501
50°	2562	2402	2177
55°	2318	2122	1903
60°	2081	1860	1696
65°	1868	1661	1624
70°	1724	1546	1563
75°	1646	1550	1639
80°	1664	1654	1785
85°	1723	1701	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	4.2
10°-20°	370.0	12.0
20°-30°	540.4	17.5
30°-40°	602.2	19.5
40°-50°	542.5	17.6
50°-60°	405.5	13.2
60°-70°	267.5	8.7
70°-80°	163.3	5.3
80°-90°	60.6	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°	1041.3	33.8
0°-40°	1643.5	53.3
0°-60°	2591.6	84.1
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1381	1379	1376	1383	1377	131
15°	1319	1314	1311	1319	1309	371
25°	1182	1178	1174	1177	1166	544
35°	989	980	970	953	938	616
45°	742	734	709	676	657	571
55°	494	486	452	415	406	442
65°	293	284	261	250	255	294
75°	158	156	149	154	158	169
85°	56	54	55	61	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1392.2	1385.8	1380.1	1388.6	1383.7
5°	1380.8	1379.4	1375.9	1383.0	1376.6
7.5°	1373.8	1368.8	1364.6	1373.1	1366.0
10°	1358.2	1355.4	1351.9	1358.9	1351.2
12.5°	1339.2	1336.3	1332.8	1341.3	1332.8
15°	1318.7	1313.7	1310.9	1318.7	1308.8
17.5°	1289.0	1286.9	1282.6	1290.4	1280.5
20°	1262.1	1254.4	1251.5	1257.2	1250.1
22.5°	1223.3	1217.6	1216.9	1220.4	1208.4
25°	1182.3	1178.0	1174.5	1176.6	1166.0
27.5°	1139.2	1133.5	1129.3	1128.6	1117.3
30°	1093.2	1086.2	1079.8	1074.2	1061.4
32.5°	1043.1	1034.6	1026.1	1016.9	1003.5
35°	988.6	980.2	969.6	952.6	937.8
37.5°	931.4	921.5	904.5	884.8	869.9
40°	865.7	860.7	841.7	816.2	800.0
42.5°	804.2	798.5	774.5	746.3	724.3
45°	742.0	734.2	708.8	676.3	657.2
47.5°	678.4	670.6	642.4	602.1	585.1
50°	612.0	607.7	573.8	537.1	520.1
52.5°	551.2	546.3	511.6	474.9	459.3
55°	494.0	486.2	452.3	414.8	405.6
57.5°	436.7	428.2	396.4	364.6	358.3
60°	386.6	376.0	345.6	320.8	315.2
62.5°	339.2	327.2	301.8	282.7	279.8
65°	293.3	284.1	260.8	250.2	255.1
67.5°	253.7	244.5	227.6	223.3	221.9
70°	219.1	210.6	196.5	197.9	198.6
72.5°	187.3	182.3	171.7	175.3	178.1
75°	158.3	155.5	149.1	154.1	157.6
77.5°	132.1	130.0	127.2	131.4	137.1
80°	107.4	106.0	106.7	109.5	115.2
82.5°	82.7	79.9	82.0	87.6	91.2
85°	55.8	53.7	55.1	60.8	61.5
87.5°	26.1	26.1	25.4	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)