

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: P290676

Luminaire Tested: **14GR-LD5-36-F1-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290676
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

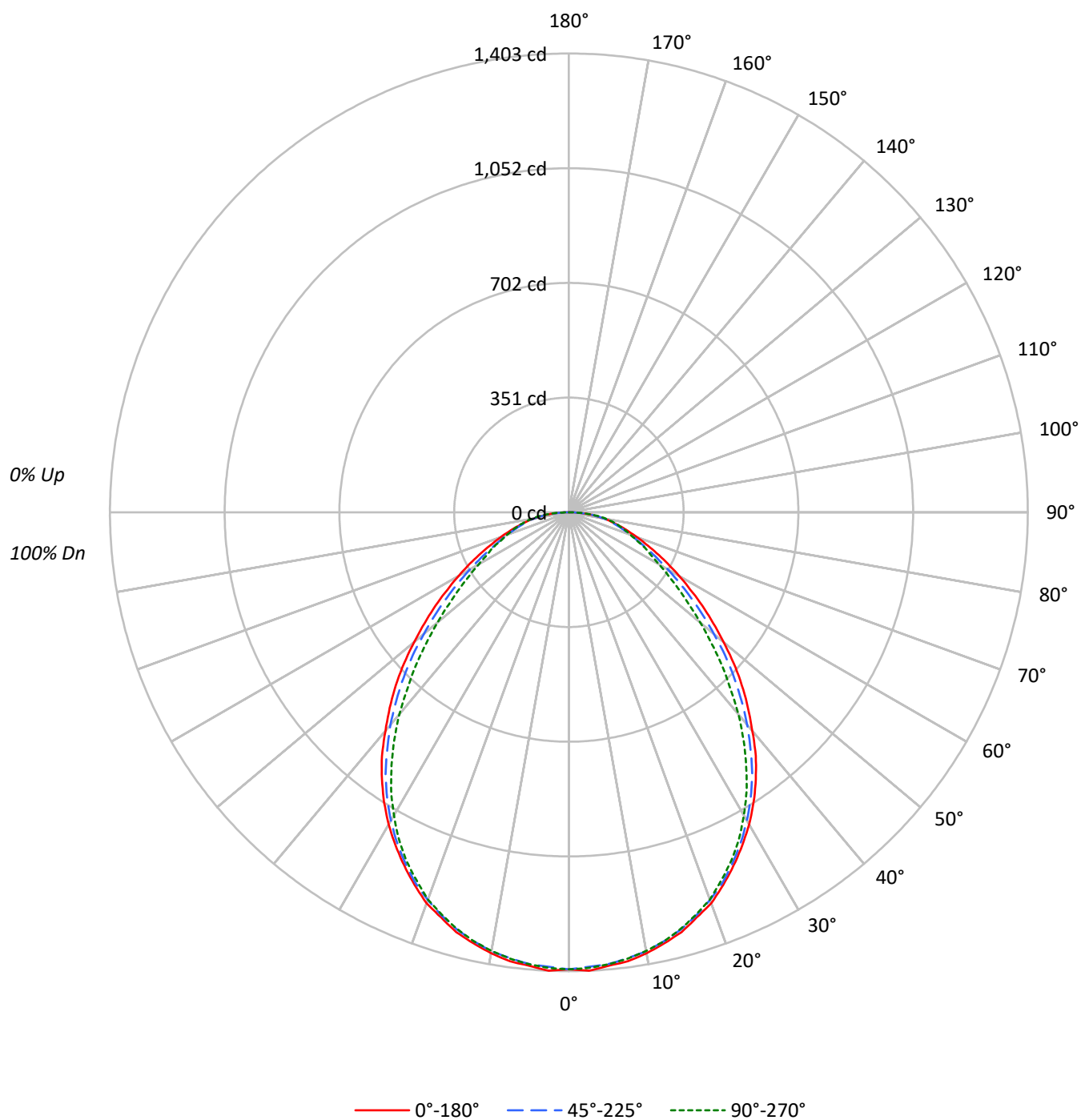
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290676

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290676

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L93050-W2A1-U-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3760	3760	3760
5°	3759	3746	3747
10°	3740	3723	3721
15°	3702	3680	3675
20°	3643	3612	3608
25°	3538	3514	3489
30°	3423	3381	3324
35°	3273	3210	3105
40°	3065	2980	2832
45°	2846	2718	2520
50°	2582	2421	2195
55°	2335	2138	1918
60°	2097	1875	1709
65°	1882	1673	1637
70°	1737	1558	1574
75°	1658	1563	1651
80°	1678	1666	1799
85°	1738	1717	1914



TEST NUMBER: P290676

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.2
10°-20°	372.9	12.0
20°-30°	544.6	17.5
30°-40°	606.8	19.5
40°-50°	546.8	17.6
50°-60°	408.7	13.2
60°-70°	269.6	8.7
70°-80°	164.6	5.3
80°-90°	61.1	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°	1049.4	33.8
0°-40°	1656.3	53.3
0°-60°	2611.8	84.1
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1392	1390	1387	1394	1387	132
15°	1329	1324	1321	1329	1319	374
25°	1192	1187	1184	1186	1175	548
35°	996	988	977	960	945	621
45°	748	740	714	682	662	576
55°	498	490	456	418	409	446
65°	296	286	263	252	257	296
75°	160	157	150	155	159	170
85°	56	54	56	61	62	60
90°	0	0	0	0	0	



TEST NUMBER: P290676

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.3	1397.3	1397.3	1397.3	1397.3
2.5°	1403.0	1396.6	1390.9	1399.4	1394.4
5°	1391.6	1390.2	1386.6	1393.7	1387.3
7.5°	1384.5	1379.5	1375.2	1383.8	1376.6
10°	1368.8	1366.0	1362.4	1369.5	1361.7
12.5°	1349.6	1346.7	1343.2	1351.7	1343.2
15°	1328.9	1323.9	1321.1	1328.9	1319.0
17.5°	1299.0	1296.9	1292.6	1300.4	1290.5
20°	1272.0	1264.1	1261.3	1267.0	1259.8
22.5°	1232.8	1227.1	1226.4	1229.9	1217.8
25°	1191.5	1187.2	1183.6	1185.8	1175.1
27.5°	1148.0	1142.3	1138.1	1137.4	1126.0
30°	1101.7	1094.6	1088.2	1082.5	1069.7
32.5°	1051.2	1042.6	1034.1	1024.8	1011.3
35°	996.3	987.8	977.1	960.0	945.1
37.5°	938.7	928.7	911.6	891.6	876.7
40°	872.4	867.4	848.2	822.6	806.2
42.5°	810.5	804.8	780.5	752.1	730.0
45°	747.8	740.0	714.3	681.6	662.3
47.5°	683.7	675.9	647.4	606.8	589.7
50°	616.7	612.5	578.3	541.3	524.2
52.5°	555.5	550.5	515.6	478.6	462.9
55°	497.8	490.0	455.8	418.0	408.8
57.5°	440.1	431.6	399.5	367.5	361.1
60°	389.6	378.9	348.3	323.3	317.6
62.5°	341.8	329.7	304.1	284.9	282.0
65°	295.6	286.3	262.8	252.1	257.1
67.5°	255.7	246.4	229.3	225.0	223.6
70°	220.8	212.2	198.0	199.4	200.1
72.5°	188.7	183.7	173.1	176.6	179.5
75°	159.5	156.7	150.3	155.3	158.8
77.5°	133.2	131.0	128.2	132.5	138.2
80°	108.3	106.8	107.5	110.4	116.1
82.5°	83.3	80.5	82.6	88.3	91.9
85°	56.3	54.1	55.6	61.2	62.0
87.5°	26.4	26.4	25.6	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)