

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: P290726

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290726
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2864.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

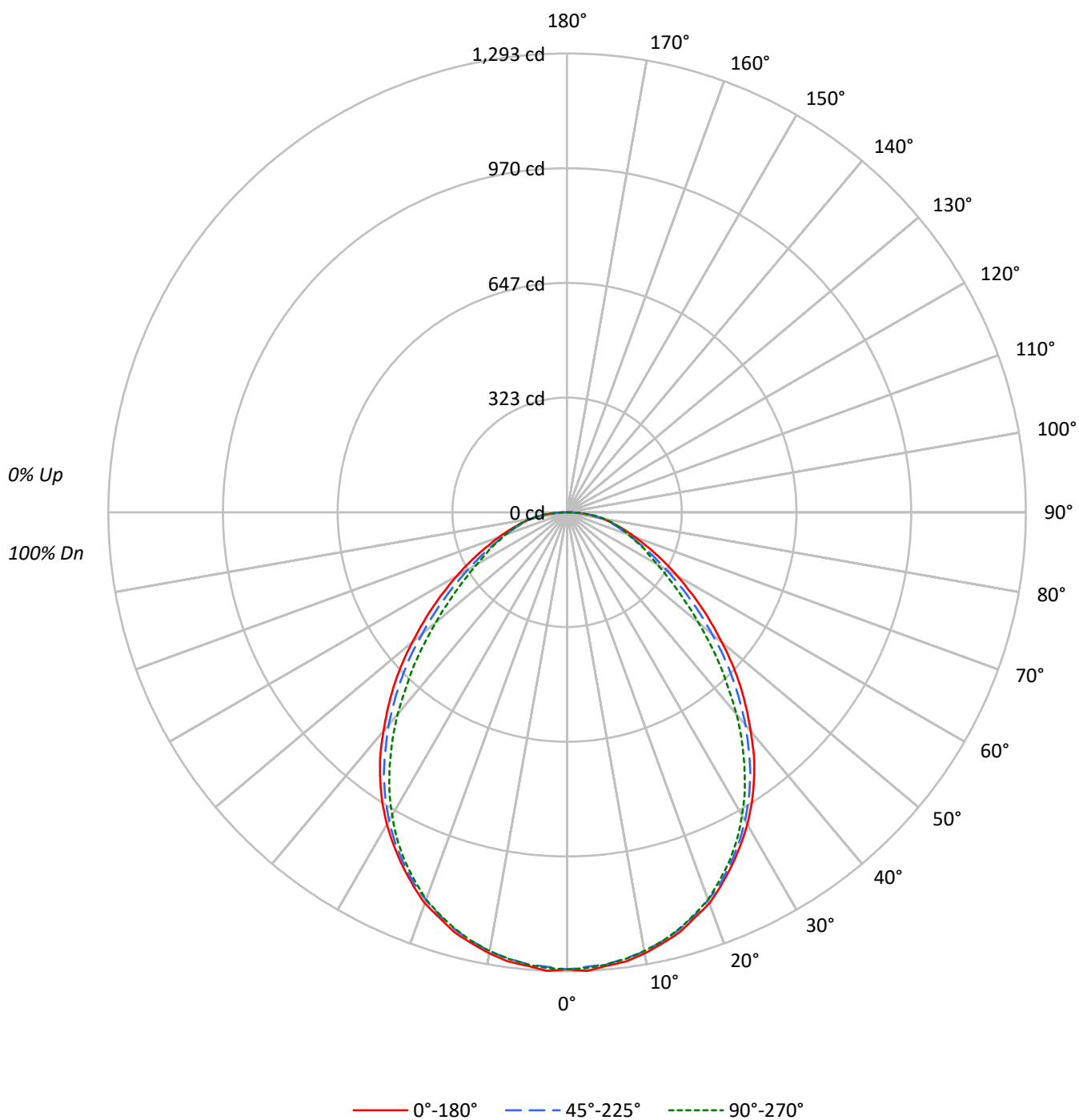
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3466	3466	3466
5°	3465	3453	3454
10°	3448	3431	3430
15°	3413	3393	3387
20°	3358	3329	3326
25°	3261	3240	3216
30°	3156	3117	3064
35°	3017	2959	2862
40°	2825	2747	2610
45°	2623	2506	2323
50°	2380	2232	2023
55°	2153	1971	1768
60°	1933	1728	1576
65°	1734	1542	1509
70°	1601	1436	1452
75°	1529	1440	1522
80°	1547	1536	1658
85°	1602	1581	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	4.2
10°-20°	343.7	12.0
20°-30°	502.0	17.5
30°-40°	559.4	19.5
40°-50°	504.0	17.6
50°-60°	376.7	13.2
60°-70°	248.5	8.7
70°-80°	151.7	5.3
80°-90°	56.3	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°	967.3	33.8
0°-40°	1526.7	53.3
0°-60°	2407.5	84.1
0°-90°	2864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1283	1281	1278	1285	1279	122
15°	1225	1220	1218	1225	1216	345
25°	1098	1094	1091	1093	1083	506
35°	918	910	901	885	871	573
45°	689	682	658	628	610	531
55°	459	452	420	385	377	411
65°	272	264	242	232	237	273
75°	147	144	138	143	146	157
85°	52	50	51	56	57	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.0	1288.0	1288.0	1288.0	1288.0
2.5°	1293.3	1287.4	1282.1	1290.0	1285.4
5°	1282.8	1281.4	1278.2	1284.7	1278.8
7.5°	1276.2	1271.6	1267.7	1275.5	1269.0
10°	1261.8	1259.1	1255.8	1262.4	1255.2
12.5°	1244.0	1241.4	1238.1	1246.0	1238.1
15°	1225.0	1220.4	1217.8	1225.0	1215.8
17.5°	1197.4	1195.4	1191.5	1198.7	1189.5
20°	1172.5	1165.3	1162.6	1167.9	1161.3
22.5°	1136.4	1131.1	1130.5	1133.7	1122.6
25°	1098.3	1094.4	1091.1	1093.0	1083.2
27.5°	1058.2	1053.0	1049.1	1048.4	1037.9
30°	1015.6	1009.0	1003.1	997.8	986.0
32.5°	969.0	961.1	953.2	944.7	932.2
35°	918.4	910.5	900.7	884.9	871.1
37.5°	865.2	856.0	840.3	821.9	808.1
40°	804.2	799.6	781.9	758.2	743.1
42.5°	747.1	741.8	719.5	693.2	672.9
45°	689.3	682.1	658.4	628.3	610.5
47.5°	630.2	623.0	596.7	559.3	543.6
50°	568.5	564.6	533.1	498.9	483.2
52.5°	512.1	507.5	475.3	441.2	426.7
55°	458.9	451.7	420.1	385.4	376.8
57.5°	405.7	397.8	368.3	338.7	332.8
60°	359.1	349.2	321.0	298.0	292.8
62.5°	315.1	304.0	280.3	262.6	260.0
65°	272.4	263.9	242.2	232.4	237.0
67.5°	235.7	227.1	211.4	207.4	206.1
70°	203.5	195.6	182.5	183.8	184.5
72.5°	174.0	169.4	159.5	162.8	165.4
75°	147.1	144.4	138.5	143.1	146.4
77.5°	122.8	120.8	118.2	122.1	127.4
80°	99.8	98.5	99.1	101.8	107.0
82.5°	76.8	74.2	76.2	81.4	84.7
85°	51.9	49.9	51.2	56.5	57.1
87.5°	24.3	24.3	23.6	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)