

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: P290922

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 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): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

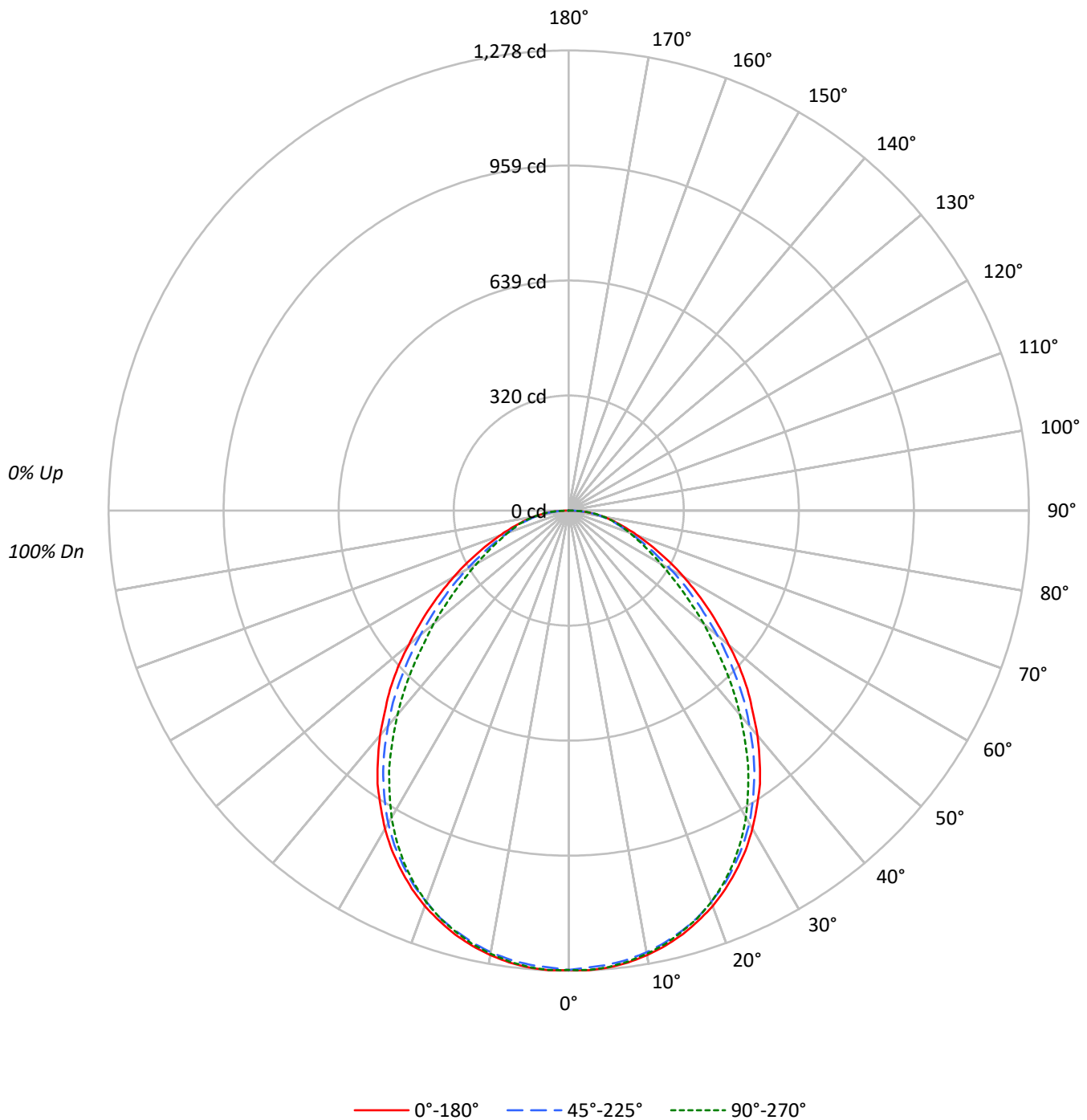
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3433	3433	3433
5°	3441	3419	3437
10°	3426	3404	3415
15°	3395	3369	3375
20°	3348	3311	3313
25°	3271	3231	3209
30°	3171	3117	3058
35°	3041	2953	2855
40°	2864	2742	2598
45°	2671	2510	2323
50°	2429	2251	2052
55°	2211	1996	1788
60°	1983	1758	1588
65°	1768	1566	1459
70°	1608	1428	1412
75°	1502	1391	1461
80°	1511	1438	1520
85°	1578	1473	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	4.2
10°-20°	342.0	11.9
20°-30°	501.5	17.5
30°-40°	559.7	19.5
40°-50°	506.7	17.7
50°-60°	382.6	13.4
60°-70°	250.1	8.7
70°-80°	146.9	5.1
80°-90°	53.8	1.9
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°	964.1	33.7
0°-40°	1523.9	53.2
0°-60°	2413.2	84.3
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°	1276	1276	1276	1276	1276	
5°	1274	1271	1266	1273	1272	121
15°	1219	1217	1209	1216	1211	343
25°	1102	1098	1088	1086	1081	507
35°	926	918	899	879	869	577
45°	702	691	660	624	610	539
55°	471	460	426	392	381	422
65°	278	269	246	232	229	279
75°	144	140	134	136	140	155
85°	51	49	48	54	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1277.9	1275.9	1269.8	1277.9	1277.2
5°	1273.9	1271.2	1265.8	1273.2	1272.5
7.5°	1265.8	1263.1	1257.7	1264.5	1263.1
10°	1253.7	1251.0	1245.6	1253.0	1249.7
12.5°	1238.2	1235.6	1229.5	1236.2	1233.5
15°	1218.8	1216.7	1209.3	1216.1	1211.4
17.5°	1195.2	1191.9	1186.5	1190.5	1187.2
20°	1169.0	1165.0	1156.2	1160.3	1156.9
22.5°	1137.4	1132.0	1126.0	1126.0	1121.3
25°	1101.8	1097.8	1088.3	1086.3	1080.9
27.5°	1063.5	1060.1	1048.0	1044.6	1035.2
30°	1020.4	1015.7	1003.0	992.2	984.1
32.5°	972.7	969.4	951.9	937.8	926.3
35°	925.7	917.6	898.8	878.6	869.2
37.5°	870.5	864.5	841.0	816.1	803.3
40°	815.4	808.0	780.5	752.9	739.5
42.5°	755.6	748.9	722.6	689.7	675.6
45°	701.8	691.1	659.5	623.8	610.4
47.5°	642.7	631.2	597.6	560.0	544.5
50°	580.1	572.7	537.8	501.5	490.1
52.5°	524.3	512.9	480.0	444.3	432.2
55°	471.2	460.5	425.5	391.9	381.2
57.5°	418.1	406.0	375.8	345.5	334.8
60°	368.4	356.3	326.7	301.8	295.1
62.5°	323.3	309.9	283.7	264.2	259.5
65°	277.6	268.9	246.0	231.9	229.2
67.5°	239.3	228.6	210.4	203.7	202.3
70°	204.4	197.0	181.5	179.5	179.5
72.5°	172.8	166.7	155.3	156.6	158.6
75°	144.5	140.5	133.8	136.5	140.5
77.5°	120.3	116.3	112.3	116.3	119.0
80°	97.5	93.4	92.8	96.1	98.1
82.5°	73.3	69.9	70.6	76.0	78.0
85°	51.1	49.1	47.7	53.8	54.5
87.5°	26.2	24.9	24.2	28.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)