

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: P290610

Luminaire Tested: **14GR-LD5-28-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290610
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-LD5-28-F1-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2644.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

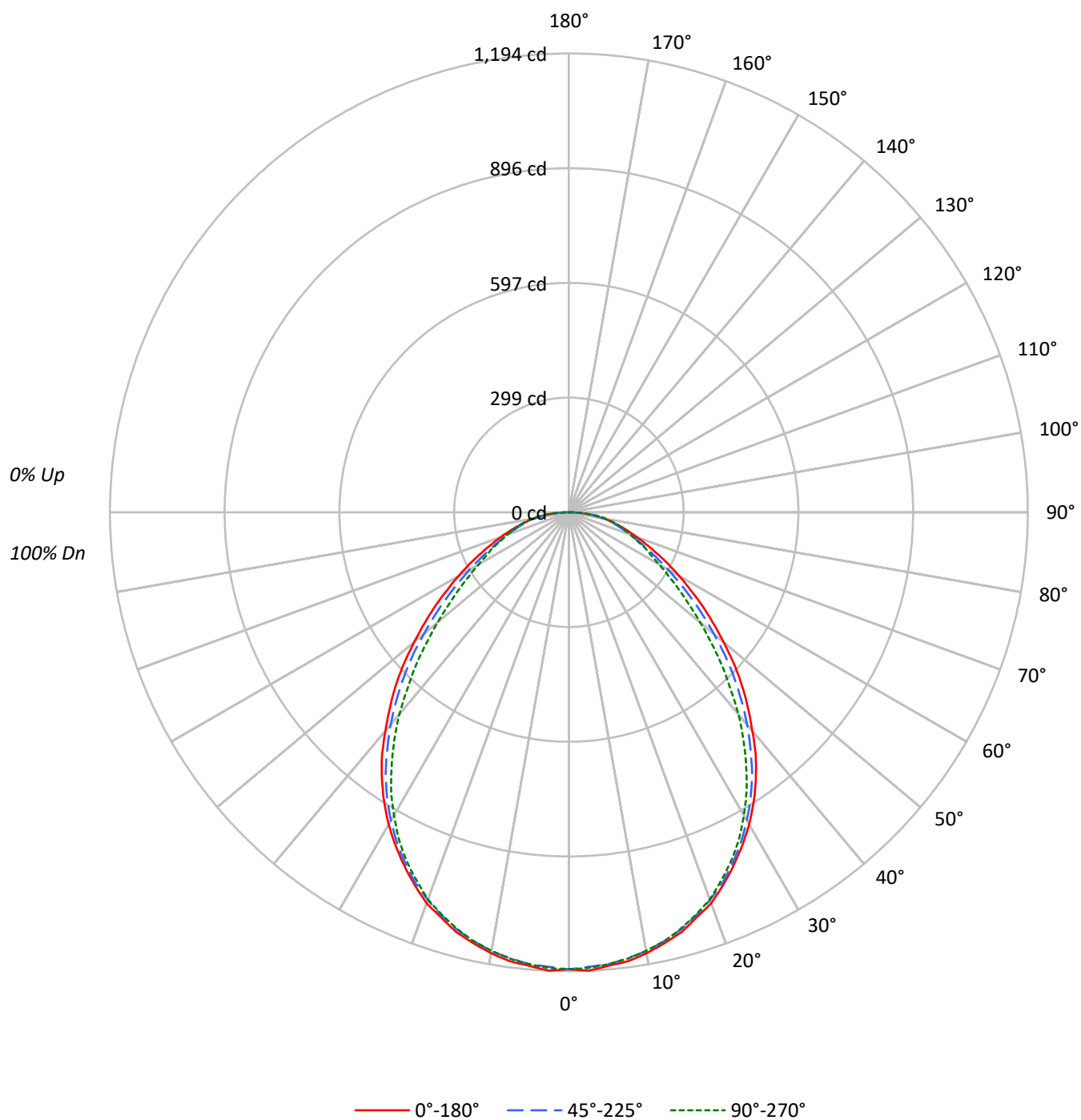
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	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		52	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°	3200	3200	3200
5°	3199	3187	3189
10°	3183	3168	3166
15°	3151	3132	3127
20°	3100	3074	3070
25°	3010	2991	2969
30°	2913	2877	2829
35°	2785	2732	2642
40°	2608	2536	2410
45°	2422	2313	2145
50°	2197	2060	1868
55°	1987	1820	1632
60°	1784	1595	1455
65°	1601	1424	1393
70°	1478	1326	1340
75°	1412	1330	1405
80°	1427	1418	1531
85°	1479	1460	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	4.2
10°-20°	317.3	12.0
20°-30°	463.4	17.5
30°-40°	516.4	19.5
40°-50°	465.3	17.6
50°-60°	347.8	13.2
60°-70°	229.4	8.7
70°-80°	140.1	5.3
80°-90°	52.0	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°	893.0	33.8
0°-40°	1409.5	53.3
0°-60°	2222.6	84.1
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1184	1183	1180	1186	1181	113
15°	1131	1127	1124	1131	1122	318
25°	1014	1010	1007	1009	1000	467
35°	848	841	832	817	804	529
45°	636	630	608	580	564	490
55°	424	417	388	356	348	379
65°	252	244	224	214	219	252
75°	136	133	128	132	135	145
85°	48	46	47	52	53	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1193.9	1188.5	1183.6	1190.9	1186.6
5°	1184.2	1183.0	1180.0	1186.0	1180.6
7.5°	1178.2	1173.9	1170.3	1177.6	1171.5
10°	1164.8	1162.4	1159.4	1165.4	1158.8
12.5°	1148.5	1146.0	1143.0	1150.3	1143.0
15°	1130.9	1126.7	1124.2	1130.9	1122.4
17.5°	1105.4	1103.6	1100.0	1106.7	1098.2
20°	1082.4	1075.7	1073.3	1078.2	1072.1
22.5°	1049.1	1044.2	1043.6	1046.7	1036.3
25°	1013.9	1010.3	1007.3	1009.1	1000.0
27.5°	977.0	972.1	968.5	967.9	958.2
30°	937.6	931.5	926.0	921.2	910.3
32.5°	894.5	887.3	880.0	872.1	860.6
35°	847.9	840.6	831.5	817.0	804.2
37.5°	798.8	790.3	775.7	758.8	746.0
40°	742.4	738.2	721.8	700.0	686.1
42.5°	689.7	684.8	664.2	640.0	621.2
45°	636.4	629.7	607.9	580.0	563.6
47.5°	581.8	575.1	550.9	516.4	501.8
50°	524.8	521.2	492.1	460.6	446.1
52.5°	472.7	468.5	438.8	407.3	393.9
55°	423.6	417.0	387.9	355.8	347.9
57.5°	374.5	367.3	340.0	312.7	307.3
60°	331.5	322.4	296.4	275.1	270.3
62.5°	290.9	280.6	258.8	242.4	240.0
65°	251.5	243.6	223.6	214.5	218.8
67.5°	217.6	209.7	195.1	191.5	190.3
70°	187.9	180.6	168.5	169.7	170.3
72.5°	160.6	156.4	147.3	150.3	152.7
75°	135.8	133.3	127.9	132.1	135.1
77.5°	113.3	111.5	109.1	112.7	117.6
80°	92.1	90.9	91.5	93.9	98.8
82.5°	70.9	68.5	70.3	75.2	78.2
85°	47.9	46.1	47.3	52.1	52.7
87.5°	22.4	22.4	21.8	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)