

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: P290904

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290904
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-LD5-28-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: 2258.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

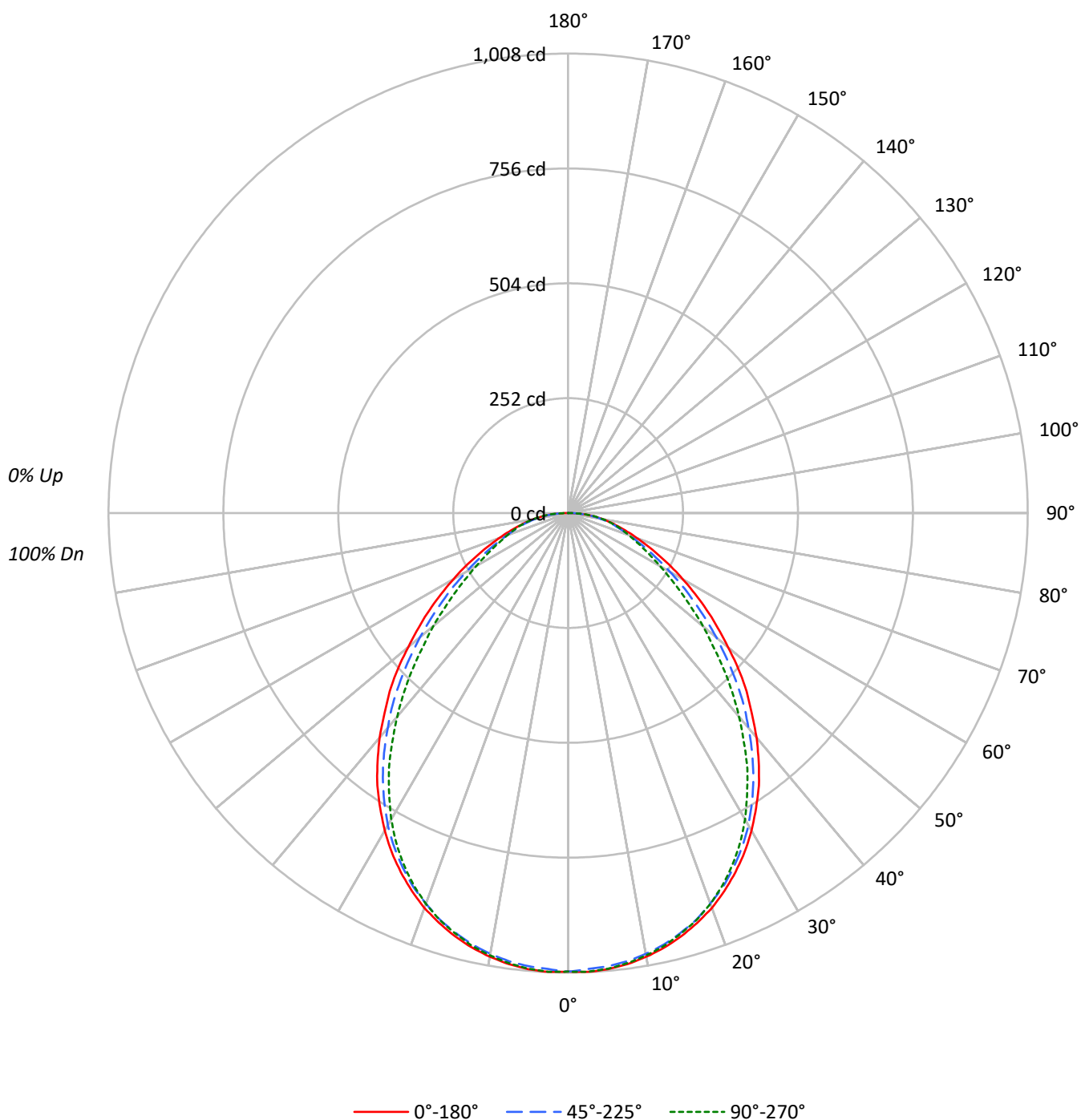
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2707	2707	2707
5°	2713	2696	2710
10°	2701	2684	2692
15°	2677	2656	2661
20°	2639	2611	2612
25°	2579	2548	2530
30°	2500	2457	2411
35°	2397	2328	2251
40°	2258	2161	2048
45°	2106	1979	1831
50°	1915	1775	1618
55°	1743	1574	1410
60°	1563	1386	1252
65°	1394	1235	1151
70°	1268	1126	1113
75°	1184	1097	1152
80°	1190	1133	1199
85°	1244	1161	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	4.2
10°-20°	269.7	11.9
20°-30°	395.4	17.5
30°-40°	441.3	19.5
40°-50°	399.5	17.7
50°-60°	301.7	13.4
60°-70°	197.2	8.7
70°-80°	115.8	5.1
80°-90°	42.4	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°	760.1	33.7
0°-40°	1201.4	53.2
0°-60°	1902.6	84.3
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1004	1002	998	1004	1003	95
15°	961	959	954	959	955	271
25°	869	866	858	856	852	400
35°	730	723	709	693	685	455
45°	553	545	520	492	481	425
55°	372	363	336	309	300	332
65°	219	212	194	183	181	220
75°	114	111	106	108	111	122
85°	40	39	38	42	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.9	1005.9	1005.9	1005.9	1005.9
2.5°	1007.5	1005.9	1001.2	1007.5	1007.0
5°	1004.3	1002.2	998.0	1003.8	1003.3
7.5°	998.0	995.9	991.6	996.9	995.9
10°	988.4	986.3	982.1	987.9	985.3
12.5°	976.2	974.1	969.4	974.7	972.5
15°	960.9	959.3	953.5	958.8	955.0
17.5°	942.3	939.7	935.4	938.6	936.0
20°	921.7	918.5	911.6	914.8	912.1
22.5°	896.7	892.5	887.7	887.7	884.0
25°	868.7	865.5	858.1	856.5	852.2
27.5°	838.4	835.8	826.3	823.6	816.2
30°	804.5	800.8	790.7	782.3	775.9
32.5°	766.9	764.2	750.5	739.3	730.3
35°	729.8	723.4	708.6	692.7	685.3
37.5°	686.3	681.6	663.0	643.4	633.3
40°	642.9	637.1	615.3	593.6	583.0
42.5°	595.7	590.4	569.7	543.8	532.6
45°	553.3	544.8	519.9	491.8	481.2
47.5°	506.7	497.7	471.2	441.5	429.3
50°	457.4	451.6	424.0	395.4	386.4
52.5°	413.4	404.4	378.4	350.3	340.8
55°	371.5	363.0	335.5	309.0	300.5
57.5°	329.7	320.1	296.3	272.4	263.9
60°	290.4	280.9	257.6	238.0	232.7
62.5°	254.9	244.3	223.7	208.3	204.6
65°	218.9	212.0	194.0	182.8	180.7
67.5°	188.7	180.2	165.9	160.6	159.5
70°	161.1	155.3	143.1	141.5	141.5
72.5°	136.2	131.4	122.4	123.5	125.1
75°	113.9	110.8	105.5	107.6	110.8
77.5°	94.9	91.7	88.5	91.7	93.8
80°	76.8	73.7	73.1	75.8	77.4
82.5°	57.8	55.1	55.6	59.9	61.5
85°	40.3	38.7	37.6	42.4	42.9
87.5°	20.7	19.6	19.1	22.8	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)