

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: P290913

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290913
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-LD5-32-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: 2562.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

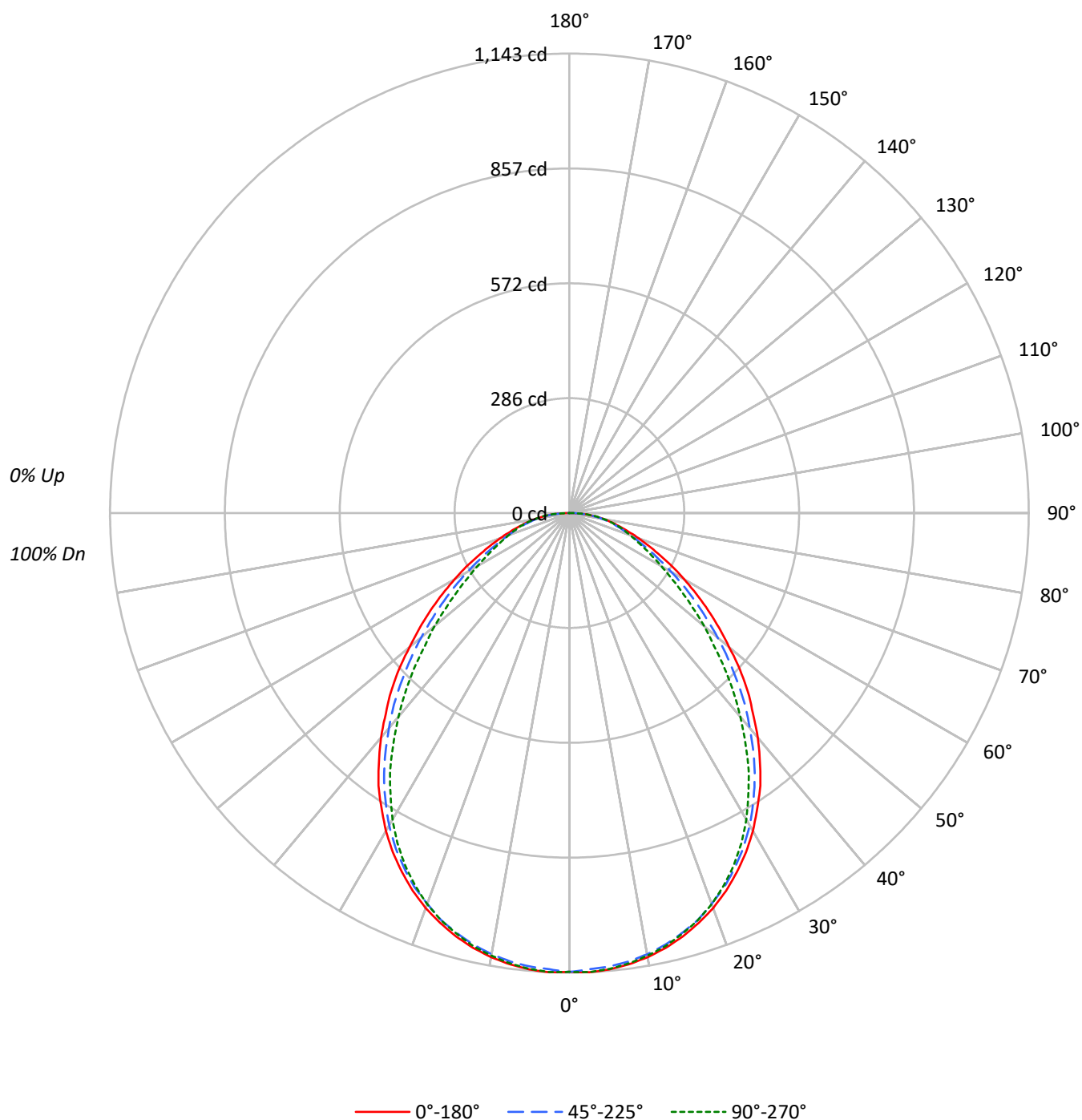
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3071	3071	3071
5°	3078	3059	3075
10°	3064	3045	3055
15°	3037	3014	3019
20°	2995	2962	2964
25°	2926	2891	2871
30°	2836	2788	2736
35°	2720	2641	2554
40°	2562	2453	2324
45°	2389	2245	2078
50°	2173	2014	1835
55°	1978	1786	1600
60°	1773	1573	1421
65°	1582	1401	1306
70°	1438	1278	1264
75°	1344	1245	1307
80°	1351	1286	1361
85°	1411	1318	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	4.2
10°-20°	306.0	11.9
20°-30°	448.6	17.5
30°-40°	500.7	19.5
40°-50°	453.3	17.7
50°-60°	342.3	13.4
60°-70°	223.7	8.7
70°-80°	131.4	5.1
80°-90°	48.1	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°	862.5	33.7
0°-40°	1363.2	53.2
0°-60°	2158.7	84.3
0°-90°	2562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1140	1137	1132	1139	1138	108
15°	1090	1088	1082	1088	1084	307
25°	986	982	974	972	967	453
35°	828	821	804	786	778	516
45°	628	618	590	558	546	482
55°	422	412	381	351	341	377
65°	248	240	220	208	205	249
75°	129	126	120	122	126	139
85°	46	44	43	48	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.4	1141.4	1141.4	1141.4	1141.4
2.5°	1143.2	1141.4	1135.9	1143.2	1142.6
5°	1139.6	1137.1	1132.3	1138.9	1138.3
7.5°	1132.3	1129.9	1125.1	1131.1	1129.9
10°	1121.5	1119.1	1114.3	1120.9	1117.9
12.5°	1107.7	1105.3	1099.9	1105.9	1103.5
15°	1090.2	1088.4	1081.8	1087.8	1083.6
17.5°	1069.2	1066.2	1061.4	1065.0	1062.0
20°	1045.7	1042.1	1034.3	1037.9	1034.9
22.5°	1017.5	1012.7	1007.3	1007.3	1003.0
25°	985.6	982.0	973.6	971.8	967.0
27.5°	951.3	948.3	937.5	934.5	926.1
30°	912.8	908.6	897.2	887.6	880.4
32.5°	870.1	867.1	851.5	838.9	828.7
35°	828.1	820.8	804.0	786.0	777.5
37.5°	778.7	773.3	752.3	730.0	718.6
40°	729.4	722.8	698.2	673.5	661.5
42.5°	675.9	669.9	646.4	617.0	604.4
45°	627.8	618.2	589.9	558.0	546.0
47.5°	574.9	564.7	534.6	500.9	487.1
50°	519.0	512.3	481.1	448.6	438.4
52.5°	469.0	458.8	429.4	397.5	386.7
55°	421.5	411.9	380.7	350.6	341.0
57.5°	374.0	363.2	336.2	309.1	299.5
60°	329.5	318.7	292.3	270.0	264.0
62.5°	289.2	277.2	253.8	236.3	232.1
65°	248.4	240.5	220.1	207.5	205.1
67.5°	214.1	204.5	188.2	182.2	181.0
70°	182.8	176.2	162.4	160.6	160.6
72.5°	154.5	149.1	138.9	140.1	141.9
75°	129.3	125.7	119.7	122.1	125.7
77.5°	107.6	104.0	100.4	104.0	106.4
80°	87.2	83.6	83.0	86.0	87.8
82.5°	65.5	62.5	63.1	68.0	69.8
85°	45.7	43.9	42.7	48.1	48.7
87.5°	23.5	22.2	21.6	25.9	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)