

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: P290803

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290803
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-LD5-24-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

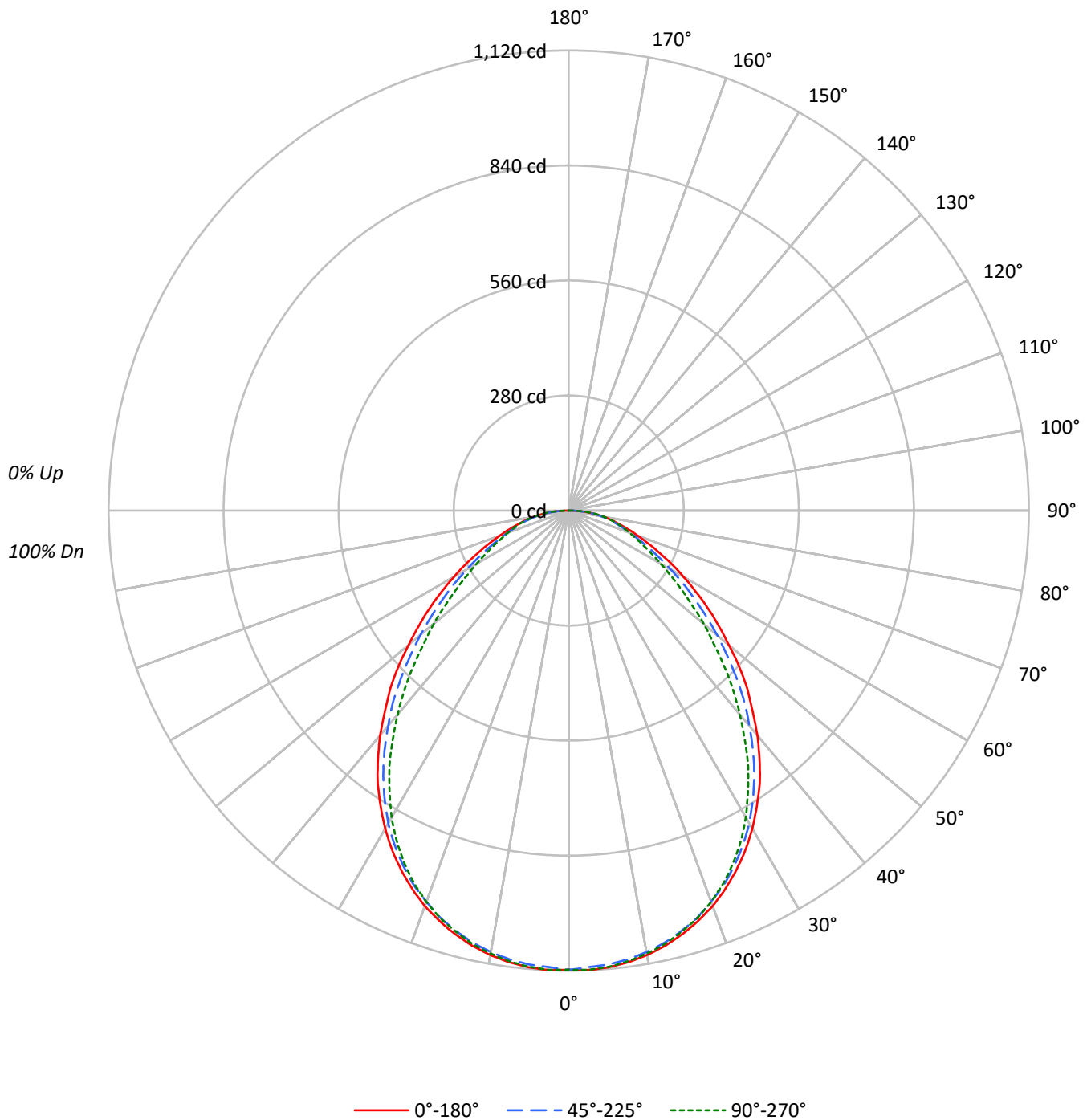
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3008	3008	3008
5°	3015	2995	3011
10°	3001	2982	2992
15°	2975	2951	2956
20°	2933	2901	2902
25°	2866	2831	2812
30°	2778	2730	2679
35°	2664	2587	2502
40°	2509	2402	2276
45°	2340	2199	2035
50°	2128	1972	1797
55°	1937	1749	1567
60°	1737	1540	1391
65°	1549	1372	1279
70°	1408	1251	1237
75°	1316	1219	1280
80°	1323	1260	1333
85°	1383	1291	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.2
10°-20°	299.6	11.9
20°-30°	439.3	17.5
30°-40°	490.3	19.5
40°-50°	443.9	17.7
50°-60°	335.2	13.4
60°-70°	219.1	8.7
70°-80°	128.7	5.1
80°-90°	47.1	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°	844.6	33.7
0°-40°	1335.0	53.2
0°-60°	2114.1	84.3
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1116	1114	1109	1115	1115	106
15°	1068	1066	1059	1065	1061	301
25°	965	962	953	952	947	444
35°	811	804	787	770	762	505
45°	615	605	578	546	535	472
55°	413	403	373	343	334	369
65°	243	236	216	203	201	244
75°	127	123	117	120	123	136
85°	45	43	42	47	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.7	1117.7	1117.7	1117.7	1117.7
2.5°	1119.5	1117.7	1112.4	1119.5	1118.9
5°	1116.0	1113.6	1108.9	1115.4	1114.8
7.5°	1108.9	1106.6	1101.8	1107.7	1106.6
10°	1098.3	1096.0	1091.2	1097.7	1094.8
12.5°	1084.8	1082.4	1077.1	1083.0	1080.6
15°	1067.7	1065.9	1059.4	1065.3	1061.2
17.5°	1047.1	1044.1	1039.4	1043.0	1040.0
20°	1024.1	1020.6	1012.9	1016.5	1013.5
22.5°	996.4	991.7	986.4	986.4	982.3
25°	965.2	961.7	953.4	951.7	947.0
27.5°	931.6	928.7	918.1	915.2	906.9
30°	894.0	889.8	878.6	869.2	862.2
32.5°	852.1	849.2	833.9	821.5	811.5
35°	810.9	803.9	787.4	769.7	761.5
37.5°	762.6	757.3	736.7	714.9	703.7
40°	714.3	707.9	683.7	659.6	647.8
42.5°	661.9	656.0	633.1	604.2	591.9
45°	614.8	605.4	577.7	546.5	534.7
47.5°	563.0	553.0	523.5	490.6	477.0
50°	508.2	501.7	471.1	439.3	429.3
52.5°	459.3	449.3	420.5	389.3	378.7
55°	412.8	403.4	372.8	343.3	333.9
57.5°	366.3	355.7	329.2	302.7	293.3
60°	322.7	312.1	286.2	264.4	258.5
62.5°	283.3	271.5	248.5	231.4	227.3
65°	243.2	235.6	215.5	203.2	200.8
67.5°	209.7	200.2	184.3	178.4	177.3
70°	179.0	172.5	159.0	157.2	157.2
72.5°	151.3	146.0	136.0	137.2	139.0
75°	126.6	123.1	117.2	119.5	123.1
77.5°	105.4	101.9	98.3	101.9	104.2
80°	85.4	81.9	81.3	84.2	86.0
82.5°	64.2	61.2	61.8	66.5	68.3
85°	44.8	43.0	41.8	47.1	47.7
87.5°	23.0	21.8	21.2	25.3	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)