

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: P290760

Luminaire Tested: **14GR-LD5-24-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290760
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-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2534.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

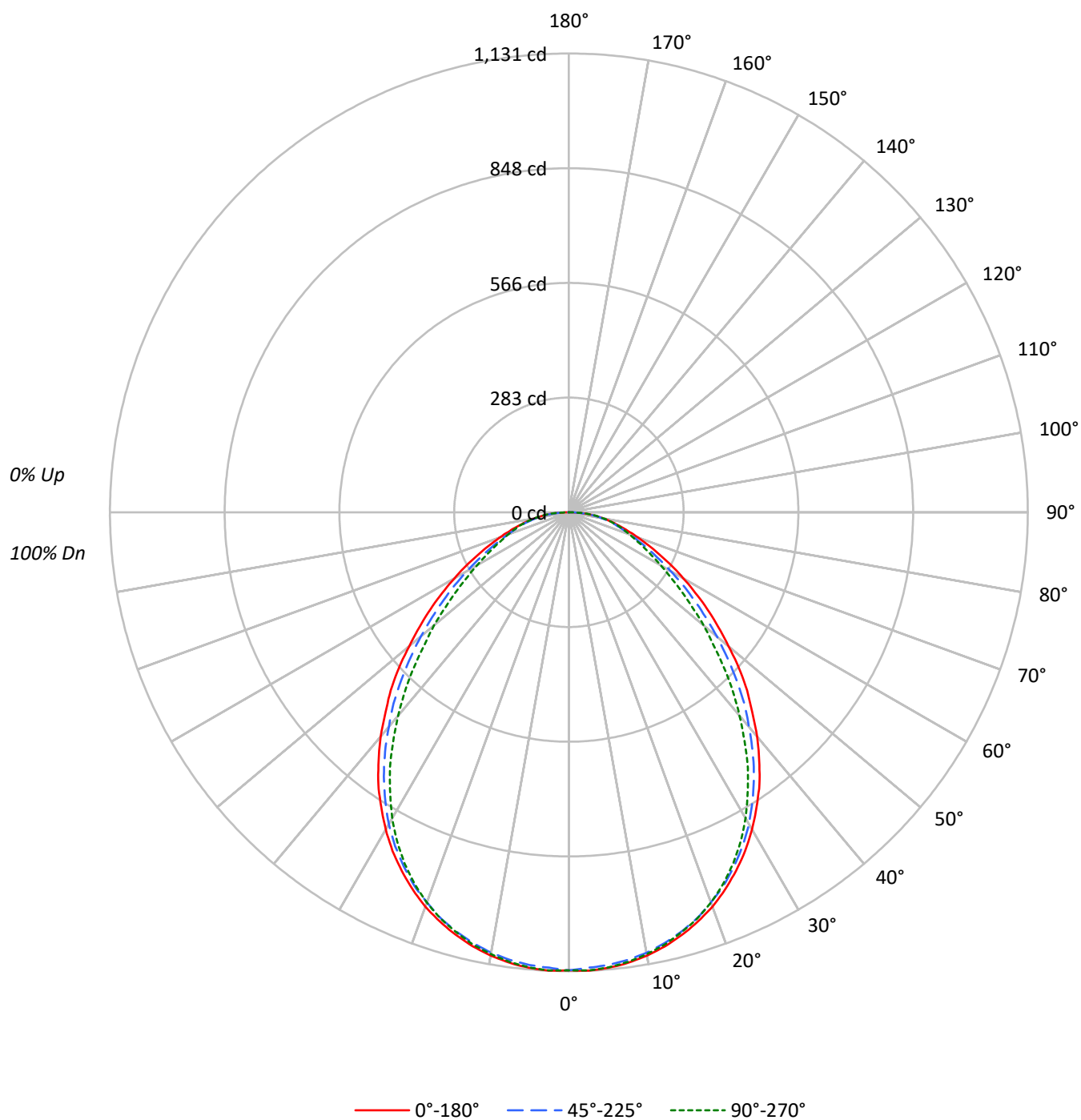
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3038	3038	3038
5°	3045	3025	3041
10°	3031	3011	3021
15°	3004	2981	2986
20°	2962	2930	2931
25°	2894	2859	2840
30°	2806	2757	2706
35°	2690	2612	2526
40°	2535	2426	2298
45°	2363	2221	2055
50°	2149	1992	1815
55°	1956	1766	1582
60°	1754	1556	1405
65°	1564	1386	1291
70°	1423	1264	1249
75°	1330	1231	1292
80°	1336	1272	1345
85°	1396	1303	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	4.2
10°-20°	302.6	11.9
20°-30°	443.7	17.5
30°-40°	495.2	19.5
40°-50°	448.3	17.7
50°-60°	338.5	13.4
60°-70°	221.3	8.7
70°-80°	130.0	5.1
80°-90°	47.6	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°	853.1	33.7
0°-40°	1348.3	53.2
0°-60°	2135.1	84.3
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1127	1125	1120	1126	1126	107
15°	1078	1076	1070	1076	1072	304
25°	975	971	963	961	956	448
35°	819	812	795	777	769	510
45°	621	611	584	552	540	477
55°	417	407	376	347	337	373
65°	246	238	218	205	203	246
75°	128	124	118	121	124	137
85°	45	43	42	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.9	1128.9	1128.9	1128.9	1128.9
2.5°	1130.7	1128.9	1123.5	1130.7	1130.1
5°	1127.1	1124.7	1120.0	1126.5	1125.9
7.5°	1120.0	1117.6	1112.8	1118.8	1117.6
10°	1109.3	1106.9	1102.1	1108.7	1105.7
12.5°	1095.6	1093.2	1087.8	1093.8	1091.4
15°	1078.3	1076.5	1070.0	1075.9	1071.8
17.5°	1057.5	1054.5	1049.8	1053.3	1050.4
20°	1034.3	1030.7	1023.0	1026.6	1023.6
22.5°	1006.4	1001.6	996.2	996.2	992.1
25°	974.8	971.3	962.9	961.2	956.4
27.5°	940.9	938.0	927.3	924.3	916.0
30°	902.9	898.7	887.4	877.9	870.7
32.5°	860.6	857.7	842.2	829.7	819.6
35°	819.0	811.9	795.2	777.4	769.0
37.5°	770.2	764.9	744.1	722.1	710.8
40°	721.5	714.9	690.5	666.1	654.3
42.5°	668.5	662.6	639.4	610.2	597.7
45°	620.9	611.4	583.5	552.0	540.1
47.5°	568.6	558.5	528.8	495.4	481.8
50°	513.3	506.7	475.8	443.7	433.6
52.5°	463.9	453.8	424.7	393.1	382.4
55°	416.9	407.4	376.5	346.8	337.2
57.5°	369.9	359.2	332.5	305.7	296.2
60°	325.9	315.2	289.1	267.1	261.1
62.5°	286.1	274.2	251.0	233.7	229.6
65°	245.6	237.9	217.7	205.2	202.8
67.5°	211.7	202.2	186.2	180.2	179.0
70°	180.8	174.3	160.6	158.8	158.8
72.5°	152.9	147.5	137.4	138.6	140.4
75°	127.9	124.3	118.4	120.7	124.3
77.5°	106.5	102.9	99.3	102.9	105.3
80°	86.2	82.7	82.1	85.1	86.8
82.5°	64.8	61.9	62.5	67.2	69.0
85°	45.2	43.4	42.2	47.6	48.2
87.5°	23.2	22.0	21.4	25.6	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)