

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: P290801

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290801
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2451.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

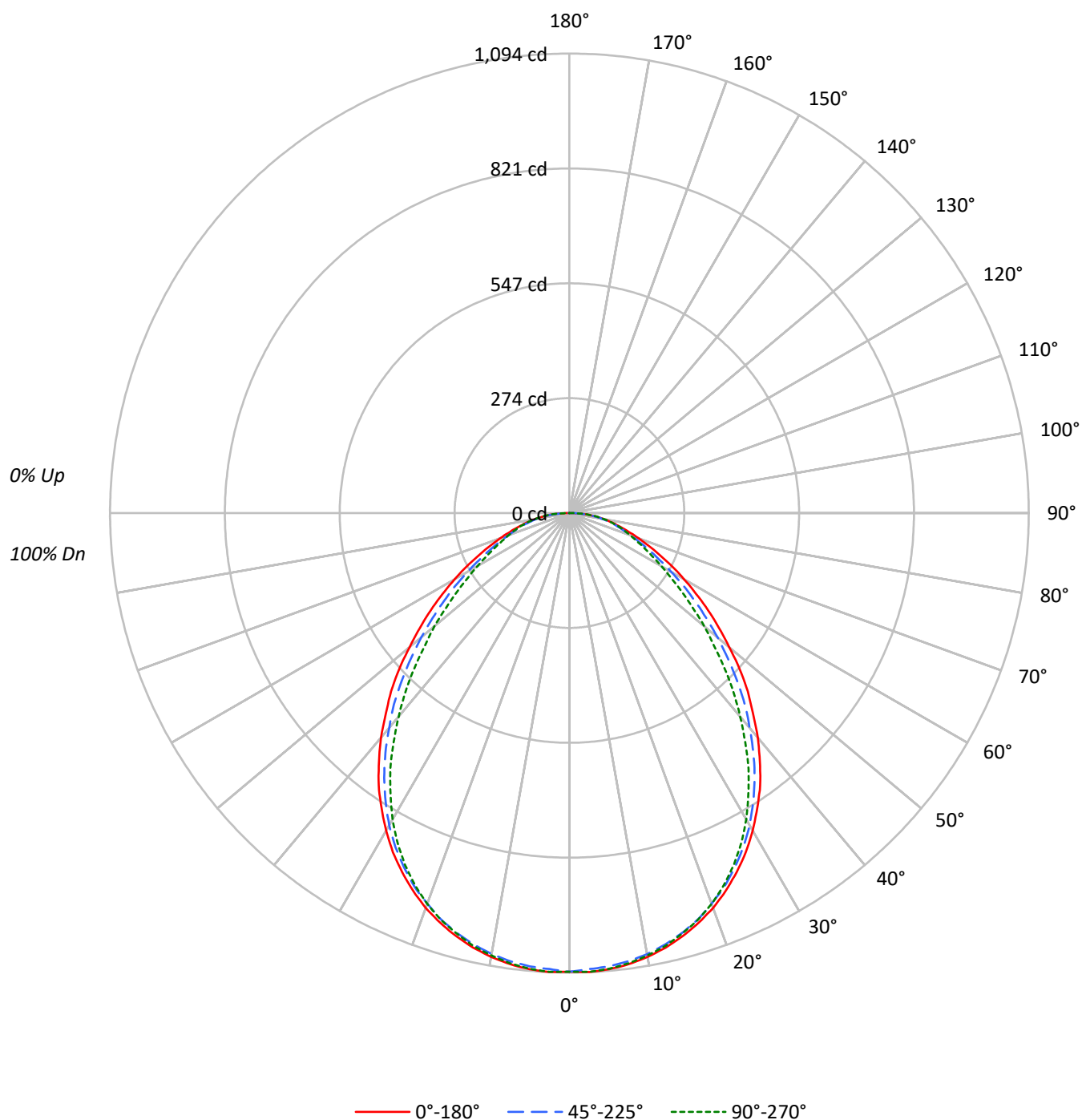
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2938	2938	2938
5°	2945	2926	2942
10°	2932	2913	2922
15°	2906	2883	2888
20°	2865	2834	2835
25°	2800	2765	2747
30°	2714	2667	2617
35°	2602	2527	2444
40°	2451	2346	2223
45°	2286	2148	1988
50°	2079	1927	1756
55°	1892	1709	1530
60°	1697	1505	1359
65°	1513	1341	1249
70°	1376	1222	1209
75°	1286	1190	1250
80°	1292	1230	1302
85°	1349	1260	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	4.2
10°-20°	292.7	11.9
20°-30°	429.2	17.5
30°-40°	479.0	19.5
40°-50°	433.7	17.7
50°-60°	327.4	13.4
60°-70°	214.1	8.7
70°-80°	125.7	5.1
80°-90°	46.0	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°	825.1	33.7
0°-40°	1304.1	53.2
0°-60°	2065.2	84.3
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1090	1088	1083	1090	1089	104
15°	1043	1041	1035	1041	1037	294
25°	943	940	931	930	925	434
35°	792	785	769	752	744	493
45°	601	591	564	534	522	461
55°	403	394	364	335	326	361
65°	238	230	211	198	196	238
75°	124	120	114	117	120	133
85°	44	42	41	46	47	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1093.6	1091.9	1086.7	1093.6	1093.1
5°	1090.2	1087.9	1083.3	1089.6	1089.0
7.5°	1083.3	1081.0	1076.4	1082.1	1081.0
10°	1072.9	1070.6	1066.0	1072.3	1069.5
12.5°	1059.7	1057.4	1052.2	1058.0	1055.7
15°	1043.0	1041.3	1035.0	1040.7	1036.7
17.5°	1022.9	1020.0	1015.4	1018.8	1016.0
20°	1000.4	997.0	989.5	993.0	990.1
22.5°	973.4	968.8	963.6	963.6	959.6
25°	942.9	939.5	931.4	929.7	925.1
27.5°	910.1	907.2	896.9	894.0	886.0
30°	873.3	869.3	858.3	849.1	842.2
32.5°	832.4	829.6	814.6	802.5	792.8
35°	792.2	785.3	769.2	751.9	743.9
37.5°	745.0	739.8	719.7	698.4	687.5
40°	697.8	691.5	667.9	644.3	632.8
42.5°	646.6	640.9	618.4	590.2	578.2
45°	600.6	591.4	564.4	533.9	522.4
47.5°	550.0	540.2	511.4	479.2	466.0
50°	496.5	490.1	460.2	429.2	419.4
52.5°	448.7	438.9	410.8	380.3	369.9
55°	403.3	394.1	364.2	335.4	326.2
57.5°	357.8	347.5	321.6	295.7	286.5
60°	315.3	304.9	279.6	258.3	252.6
62.5°	276.7	265.2	242.8	226.1	222.1
65°	237.6	230.1	210.6	198.5	196.2
67.5°	204.8	195.6	180.1	174.3	173.2
70°	174.9	168.6	155.3	153.6	153.6
72.5°	147.9	142.7	132.9	134.0	135.8
75°	123.7	120.2	114.5	116.8	120.2
77.5°	103.0	99.5	96.1	99.5	101.8
80°	83.4	80.0	79.4	82.3	84.0
82.5°	62.7	59.8	60.4	65.0	66.7
85°	43.7	42.0	40.8	46.0	46.6
87.5°	22.4	21.3	20.7	24.7	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)