

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: P292131

Luminaire Tested: **22GR-LD5-24-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2433.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

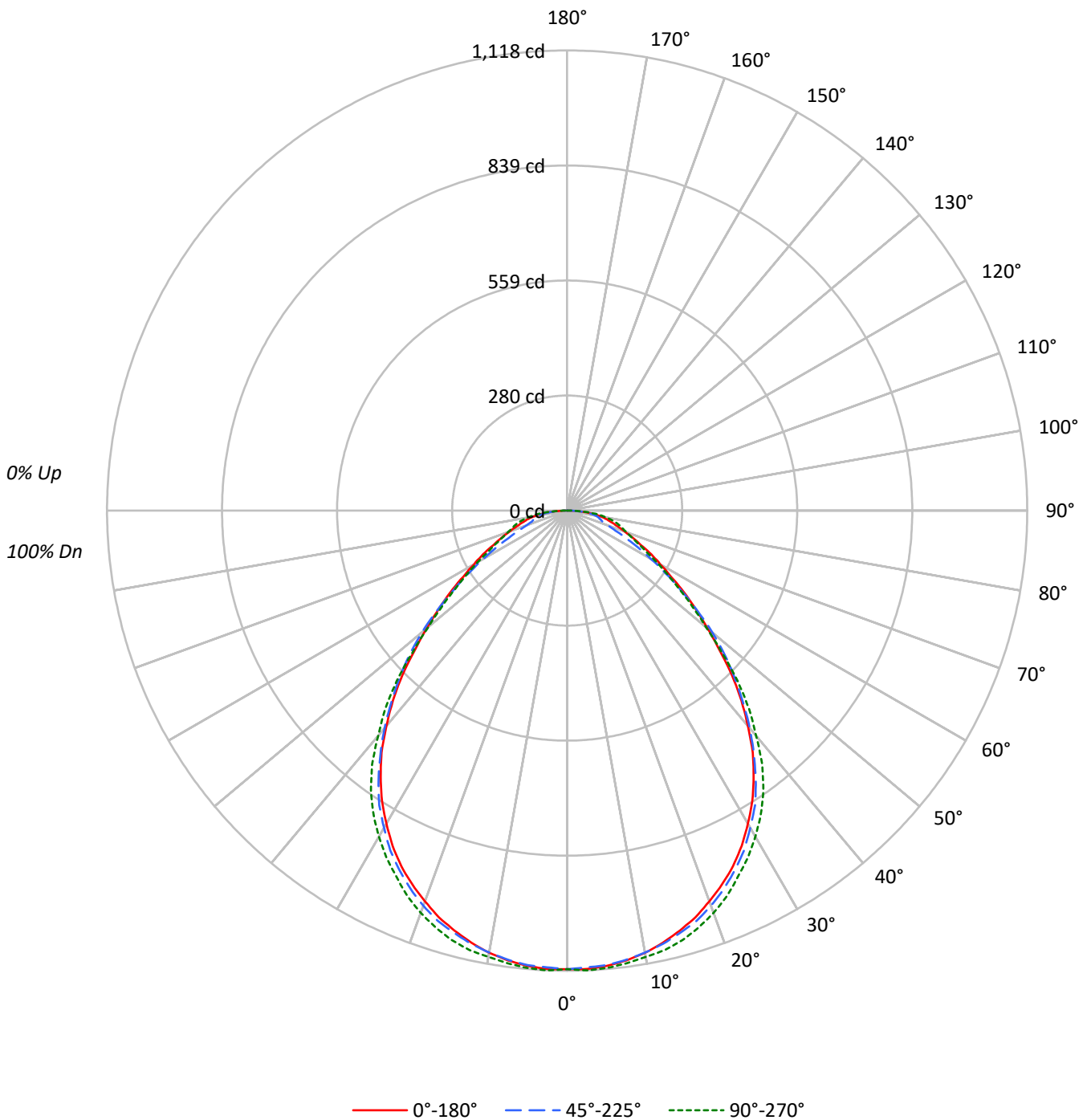
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2998	2998	2998
5°	2999	2995	3013
10°	2981	2980	3009
15°	2943	2959	3011
20°	2893	2926	2979
25°	2831	2863	2915
30°	2728	2765	2841
35°	2595	2624	2730
40°	2399	2425	2510
45°	2155	2194	2228
50°	1863	1930	1844
55°	1626	1583	1562
60°	1408	1267	1353
65°	1258	995	1215
70°	1167	824	1198
75°	1166	871	1331
80°	1289	1097	1500
85°	1346	1189	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	4.3
10°-20°	300.3	12.3
20°-30°	444.1	18.3
30°-40°	501.2	20.6
40°-50°	441.8	18.2
50°-60°	303.1	12.5
60°-70°	178.9	7.4
70°-80°	111.6	4.6
80°-90°	46.5	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°	849.9	34.9
0°-40°	1351.1	55.5
0°-60°	2096.0	86.1
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1110	1108	1109	1112	1115	105
15°	1056	1058	1062	1075	1081	298
25°	953	957	964	977	982	438
35°	790	797	799	818	831	492
45°	566	569	576	580	585	435
55°	346	338	337	326	333	311
65°	198	174	156	181	191	199
75°	112	101	84	117	128	120
85°	44	41	38	50	55	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1114.8	1112.0	1110.8	1115.4	1118.2
5°	1110.3	1108.0	1108.6	1112.5	1115.4
7.5°	1102.3	1100.6	1100.6	1106.3	1109.1
10°	1091.0	1090.4	1090.4	1097.2	1101.2
12.5°	1075.2	1075.7	1078.0	1087.0	1093.8
15°	1056.5	1057.6	1062.1	1075.2	1080.8
17.5°	1036.1	1036.1	1045.2	1055.3	1062.1
20°	1010.1	1011.7	1021.9	1033.3	1040.1
22.5°	983.4	986.3	994.8	1007.8	1014.0
25°	953.4	956.8	964.2	976.6	981.7
27.5°	918.3	922.9	930.8	939.8	950.6
30°	878.1	884.9	890.0	902.5	914.4
32.5°	837.4	843.6	849.3	862.3	875.9
35°	789.8	796.6	798.9	818.1	831.1
37.5°	741.1	743.9	745.1	764.3	778.5
40°	682.8	688.5	690.2	705.4	714.5
42.5°	626.8	629.0	632.4	643.7	654.5
45°	566.2	569.0	576.4	579.8	585.4
47.5°	502.8	511.3	519.7	509.0	509.6
50°	445.0	451.8	460.9	440.5	440.5
52.5°	393.5	396.9	397.5	380.5	383.9
55°	346.5	338.0	337.4	326.1	332.9
57.5°	299.5	288.2	284.2	280.8	288.7
60°	261.6	241.2	235.5	240.6	251.4
62.5°	230.4	204.4	193.6	206.7	216.3
65°	197.6	173.8	156.3	180.6	190.8
67.5°	172.1	149.5	126.8	161.4	168.7
70°	148.3	130.8	104.7	146.6	152.3
72.5°	129.1	115.5	90.6	132.5	139.3
75°	112.1	100.8	83.8	117.2	128.0
77.5°	98.5	86.1	78.1	101.3	114.4
80°	83.2	70.8	70.8	84.9	96.8
82.5°	65.7	55.5	57.2	69.1	77.6
85°	43.6	40.8	38.5	50.4	54.9
87.5°	22.1	22.6	20.4	26.0	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)