

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: P291196

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

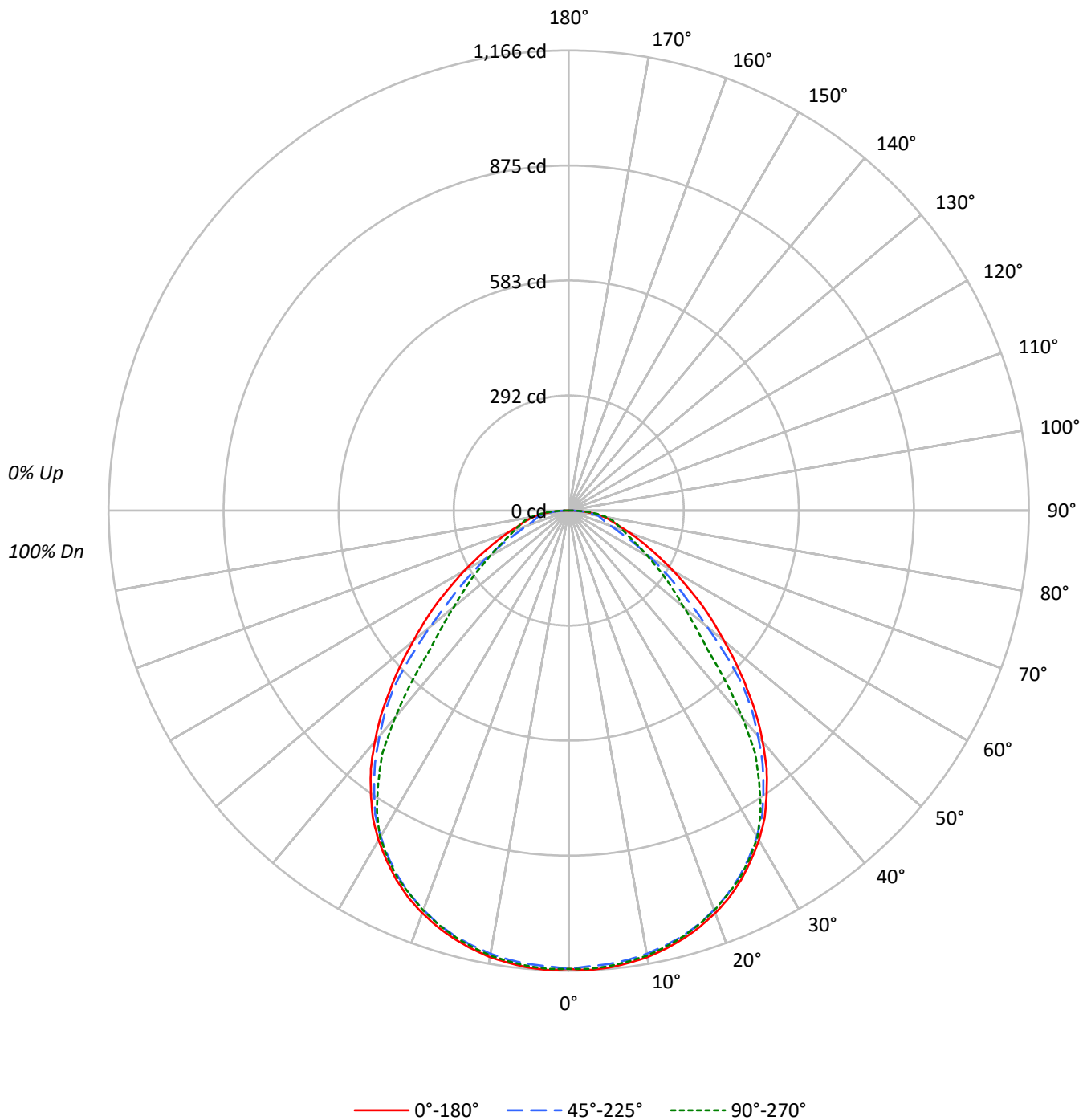
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3125	3125	3125
5°	3140	3116	3131
10°	3140	3115	3128
15°	3129	3109	3114
20°	3108	3084	3087
25°	3066	3038	3047
30°	2996	2963	2970
35°	2872	2824	2764
40°	2686	2620	2404
45°	2431	2361	1885
50°	2151	1911	1589
55°	1903	1571	1402
60°	1643	1300	1243
65°	1429	1034	1143
70°	1291	887	1142
75°	1240	927	1277
80°	1382	1181	1491
85°	1457	1257	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	4.3
10°-20°	315.7	12.4
20°-30°	472.5	18.6
30°-40°	534.8	21.0
40°-50°	455.6	17.9
50°-60°	308.5	12.1
60°-70°	184.2	7.2
70°-80°	115.1	4.5
80°-90°	48.6	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°	898.3	35.3
0°-40°	1433.2	56.3
0°-60°	2197.2	86.3
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1162	1160	1154	1161	1159	111
15°	1123	1119	1116	1123	1118	317
25°	1033	1030	1023	1028	1026	475
35°	874	869	860	851	841	545
45°	639	641	620	529	495	493
55°	406	383	335	299	299	363
65°	224	187	162	174	180	226
75°	119	107	89	117	123	129
85°	47	44	41	51	58	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1165.5	1162.5	1156.0	1163.7	1162.5
5°	1162.5	1159.6	1153.7	1160.8	1159.0
7.5°	1156.6	1153.7	1148.4	1155.5	1152.5
10°	1149.0	1145.4	1140.1	1147.8	1144.8
12.5°	1137.2	1133.6	1128.9	1136.6	1132.4
15°	1123.0	1118.9	1115.9	1123.0	1117.7
17.5°	1105.9	1102.3	1098.2	1105.3	1099.4
20°	1085.2	1082.2	1076.9	1081.1	1078.1
22.5°	1061.6	1057.4	1052.1	1056.9	1052.7
25°	1032.7	1029.7	1023.2	1027.9	1026.2
27.5°	999.6	997.8	990.1	996.0	993.1
30°	964.2	959.4	953.5	955.3	955.9
32.5°	923.4	917.5	912.8	908.7	904.5
35°	874.4	869.1	859.7	850.8	841.4
37.5°	823.6	816.6	807.1	787.6	775.8
40°	764.6	761.1	745.7	718.5	684.3
42.5°	704.4	700.8	687.3	626.4	589.2
45°	638.8	640.6	620.5	529.0	495.4
47.5°	576.3	581.0	537.3	451.7	434.0
50°	513.7	519.0	456.4	390.3	379.6
52.5°	458.8	454.6	389.1	342.4	337.7
55°	405.6	383.2	334.8	298.8	298.8
57.5°	351.3	319.4	284.6	261.6	261.6
60°	305.2	265.7	241.5	226.1	230.9
62.5°	262.7	220.8	200.2	197.2	203.1
65°	224.4	187.2	162.4	173.6	179.5
67.5°	193.1	160.0	133.4	157.1	160.6
70°	164.1	139.3	112.8	144.7	145.2
72.5°	137.6	122.8	96.8	131.1	133.4
75°	119.3	106.9	89.2	116.9	122.8
77.5°	104.5	91.5	82.1	101.0	112.2
80°	89.2	75.0	76.2	85.0	96.2
82.5°	68.5	57.9	60.2	69.7	78.5
85°	47.2	43.7	40.7	51.4	57.9
87.5°	25.4	23.6	20.7	28.9	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)