

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: P291195

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291195
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2539.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

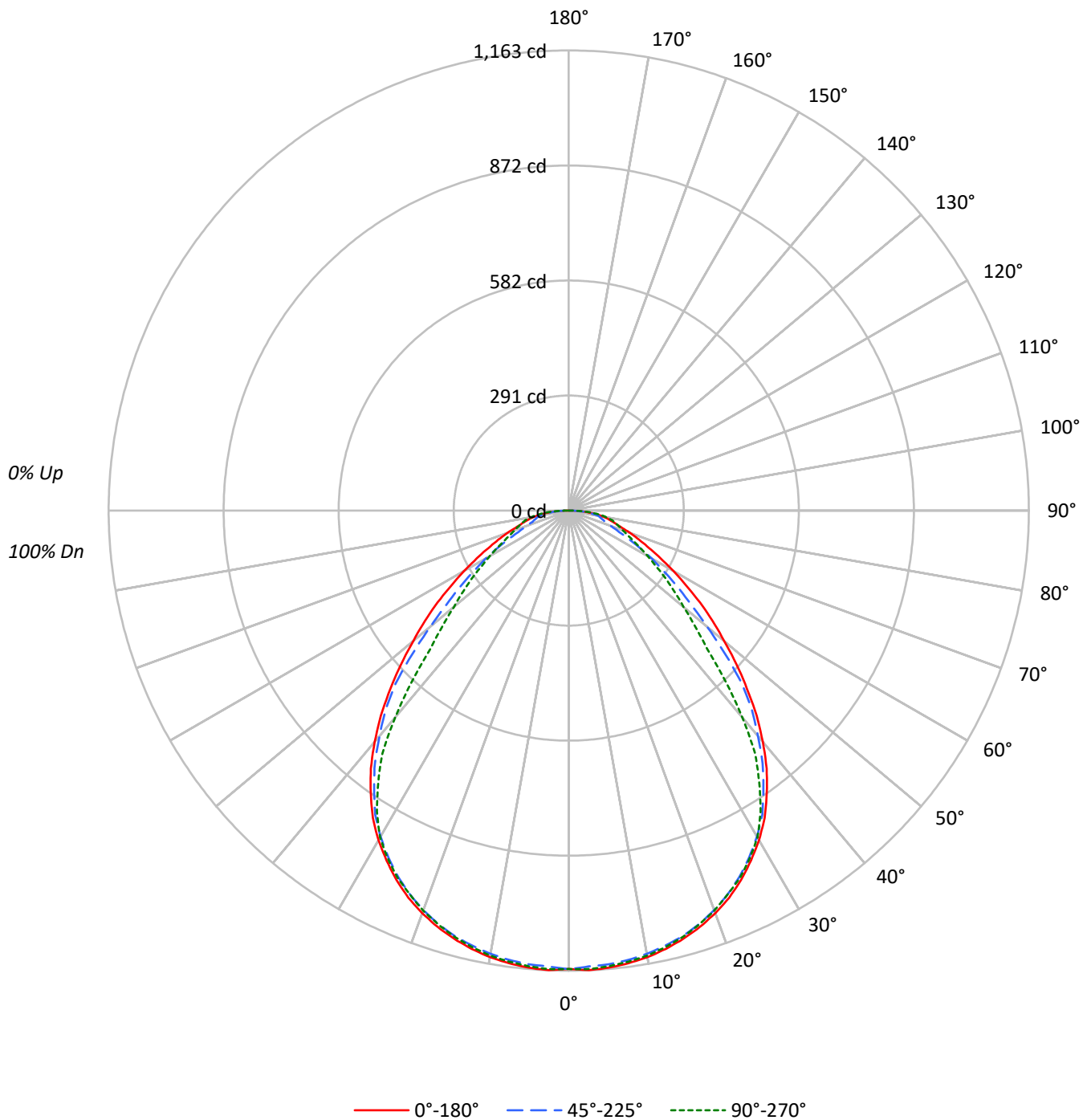
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3118	3118	3118
5°	3133	3109	3123
10°	3132	3108	3121
15°	3121	3102	3106
20°	3100	3077	3080
25°	3059	3031	3040
30°	2989	2956	2963
35°	2866	2817	2757
40°	2680	2613	2398
45°	2425	2356	1881
50°	2146	1906	1585
55°	1899	1567	1399
60°	1639	1297	1239
65°	1425	1032	1140
70°	1289	885	1140
75°	1237	924	1274
80°	1378	1178	1488
85°	1454	1254	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.3
10°-20°	315.0	12.4
20°-30°	471.4	18.6
30°-40°	533.6	21.0
40°-50°	454.5	17.9
50°-60°	307.7	12.1
60°-70°	183.7	7.2
70°-80°	114.8	4.5
80°-90°	48.5	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°	896.2	35.3
0°-40°	1429.8	56.3
0°-60°	2192.0	86.3
0°-90°	2539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1160	1157	1151	1158	1156	110
15°	1120	1116	1113	1120	1115	316
25°	1030	1027	1021	1026	1024	474
35°	872	867	858	849	839	544
45°	637	639	619	528	494	492
55°	405	382	334	298	298	362
65°	224	187	162	173	179	226
75°	119	107	89	117	122	128
85°	47	44	41	51	58	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	1158.6
2.5°	1162.7	1159.8	1153.3	1161.0	1159.8
5°	1159.8	1156.9	1151.0	1158.0	1156.3
7.5°	1153.9	1151.0	1145.7	1152.7	1149.8
10°	1146.3	1142.7	1137.4	1145.1	1142.1
12.5°	1134.5	1130.9	1126.2	1133.9	1129.8
15°	1120.3	1116.2	1113.3	1120.3	1115.0
17.5°	1103.3	1099.7	1095.6	1102.7	1096.8
20°	1082.6	1079.7	1074.4	1078.5	1075.6
22.5°	1059.1	1055.0	1049.7	1054.4	1050.2
25°	1030.2	1027.3	1020.8	1025.5	1023.7
27.5°	997.2	995.5	987.8	993.7	990.8
30°	961.9	957.2	951.3	953.1	953.6
32.5°	921.2	915.4	910.6	906.5	902.4
35°	872.4	867.1	857.6	848.8	839.4
37.5°	821.7	814.6	805.2	785.8	774.0
40°	762.8	759.3	743.9	716.9	682.7
42.5°	702.7	699.2	685.6	625.0	587.9
45°	637.3	639.1	619.1	527.8	494.2
47.5°	574.9	579.6	536.0	450.6	432.9
50°	512.5	517.8	455.3	389.4	378.7
52.5°	457.7	453.6	388.2	341.6	336.9
55°	404.7	382.3	334.0	298.1	298.1
57.5°	350.5	318.7	283.9	260.9	260.9
60°	304.5	265.1	240.9	225.6	230.3
62.5°	262.1	220.3	199.7	196.7	202.6
65°	223.8	186.7	162.0	173.2	179.1
67.5°	192.6	159.6	133.1	156.7	160.2
70°	163.8	139.0	112.5	144.3	144.9
72.5°	137.2	122.5	96.6	130.8	133.1
75°	119.0	106.6	88.9	116.6	122.5
77.5°	104.3	91.3	81.9	100.7	111.9
80°	88.9	74.8	76.0	84.8	96.0
82.5°	68.3	57.7	60.1	69.5	78.3
85°	47.1	43.6	40.6	51.2	57.7
87.5°	25.3	23.6	20.6	28.9	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)