

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: P291193

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291193
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

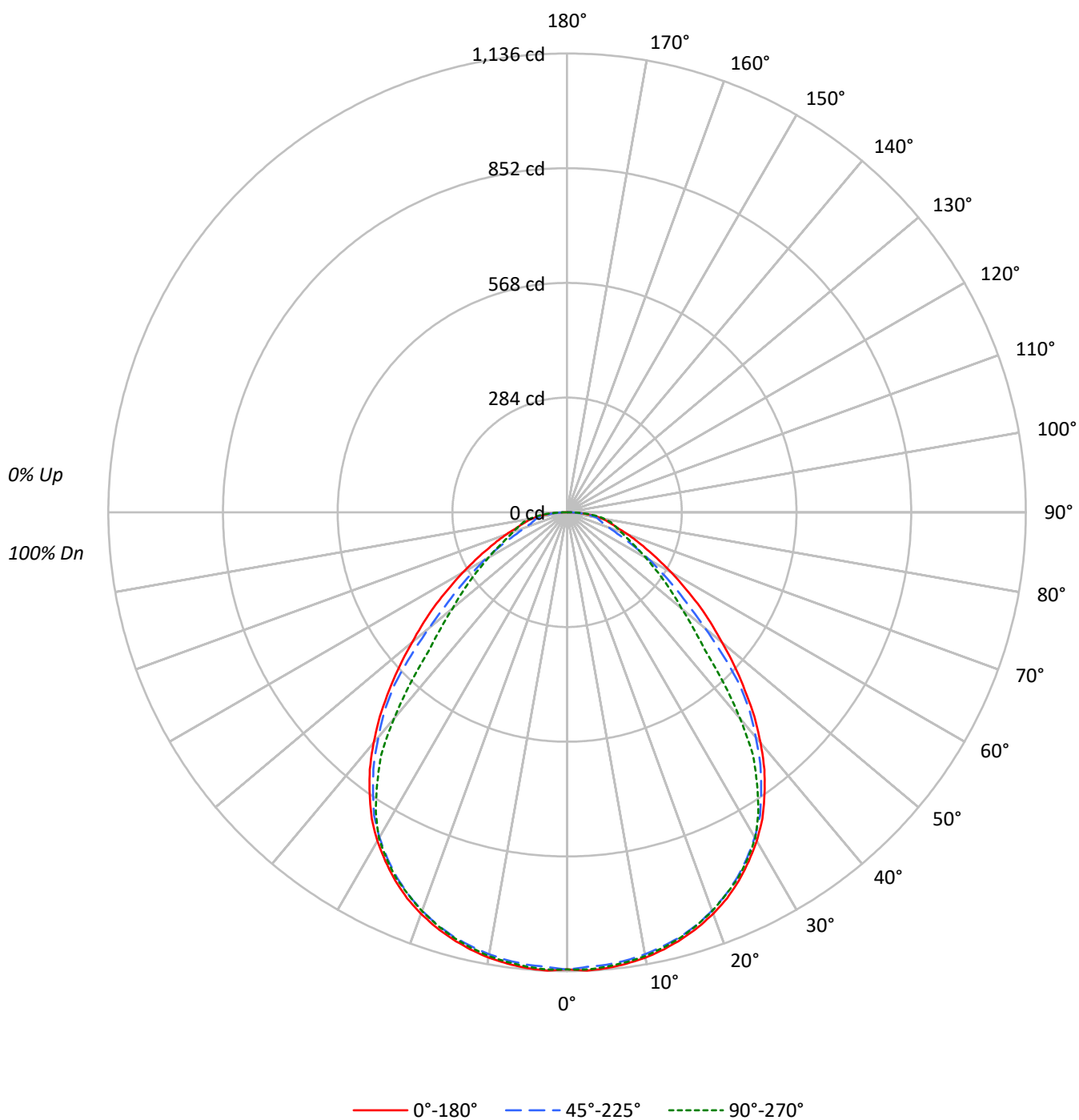
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		64
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		36
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3045	3045	3045
5°	3060	3037	3051
10°	3059	3036	3048
15°	3049	3029	3034
20°	3028	3005	3009
25°	2988	2961	2969
30°	2919	2887	2894
35°	2799	2752	2693
40°	2617	2553	2342
45°	2369	2301	1837
50°	2095	1862	1549
55°	1855	1530	1366
60°	1601	1266	1211
65°	1392	1007	1114
70°	1258	865	1113
75°	1208	904	1245
80°	1347	1150	1454
85°	1420	1226	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	4.3
10°-20°	307.6	12.4
20°-30°	460.4	18.6
30°-40°	521.2	21.0
40°-50°	443.9	17.9
50°-60°	300.6	12.1
60°-70°	179.4	7.2
70°-80°	112.1	4.5
80°-90°	47.4	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°	875.4	35.3
0°-40°	1396.6	56.3
0°-60°	2141.0	86.3
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1133	1130	1124	1131	1129	108
15°	1094	1090	1087	1094	1089	309
25°	1006	1003	997	1002	1000	463
35°	852	847	838	829	820	531
45°	622	624	605	516	483	480
55°	395	373	326	291	291	353
65°	219	182	158	169	175	220
75°	116	104	87	114	120	125
85°	46	43	40	50	56	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.7	1131.7	1131.7	1131.7	1131.7
2.5°	1135.7	1132.9	1126.5	1134.0	1132.9
5°	1132.9	1130.0	1124.2	1131.1	1129.4
7.5°	1127.1	1124.2	1119.0	1125.9	1123.1
10°	1119.6	1116.2	1111.0	1118.5	1115.6
12.5°	1108.1	1104.7	1100.1	1107.5	1103.5
15°	1094.3	1090.3	1087.4	1094.3	1089.1
17.5°	1077.6	1074.2	1070.1	1077.0	1071.3
20°	1057.5	1054.6	1049.4	1053.5	1050.6
22.5°	1034.5	1030.4	1025.3	1029.9	1025.8
25°	1006.3	1003.4	997.1	1001.7	999.9
27.5°	974.1	972.3	964.9	970.6	967.7
30°	939.5	934.9	929.2	930.9	931.5
32.5°	899.8	894.1	889.5	885.5	881.4
35°	852.1	846.9	837.7	829.1	819.9
37.5°	802.6	795.7	786.5	767.5	756.0
40°	745.1	741.6	726.7	700.2	666.8
42.5°	686.4	682.9	669.7	610.4	574.2
45°	622.5	624.2	604.7	515.5	482.7
47.5°	561.5	566.1	523.6	440.1	422.9
50°	500.5	505.7	444.7	380.3	369.9
52.5°	447.0	443.0	379.2	333.7	329.1
55°	395.3	373.4	326.2	291.1	291.1
57.5°	342.3	311.3	277.3	254.9	254.9
60°	297.5	258.9	235.3	220.4	225.0
62.5°	256.0	215.2	195.0	192.2	197.9
65°	218.6	182.4	158.2	169.2	174.9
67.5°	188.1	155.9	130.0	153.0	156.5
70°	159.9	135.8	109.9	141.0	141.5
72.5°	134.1	119.7	94.4	127.7	130.0
75°	116.2	104.1	86.9	113.9	119.7
77.5°	101.8	89.2	80.0	98.4	109.3
80°	86.9	73.1	74.2	82.8	93.8
82.5°	66.7	56.4	58.7	67.9	76.5
85°	46.0	42.6	39.7	50.1	56.4
87.5°	24.7	23.0	20.1	28.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)