

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: P291194

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291194
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2514.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

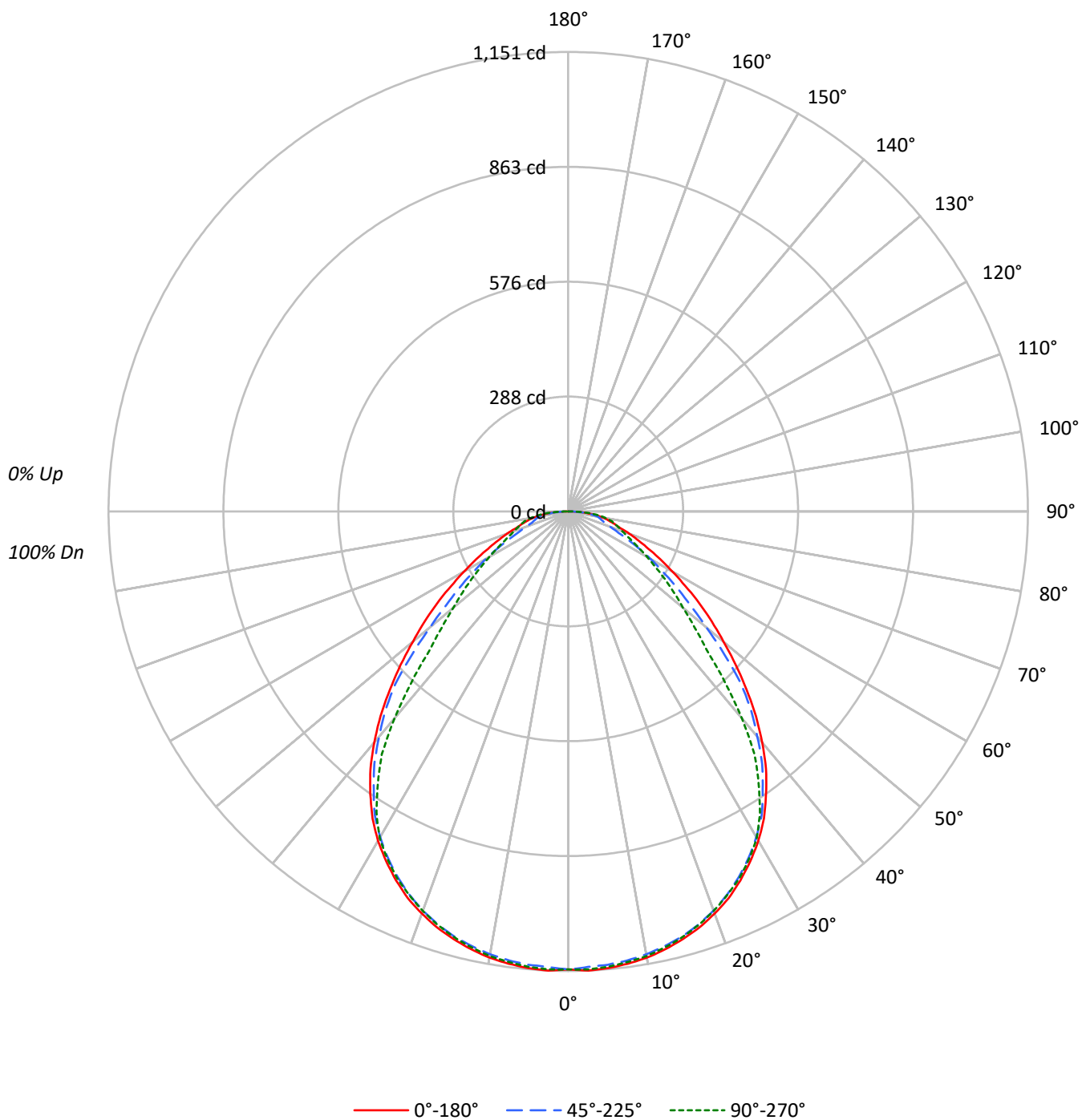
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3087	3087	3087
5°	3102	3078	3093
10°	3101	3077	3090
15°	3090	3071	3076
20°	3070	3046	3050
25°	3029	3001	3010
30°	2959	2927	2934
35°	2838	2790	2730
40°	2653	2588	2375
45°	2402	2333	1862
50°	2124	1887	1570
55°	1880	1552	1384
60°	1623	1284	1227
65°	1411	1021	1129
70°	1275	876	1129
75°	1225	916	1261
80°	1365	1165	1474
85°	1442	1241	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	4.3
10°-20°	311.9	12.4
20°-30°	466.7	18.6
30°-40°	528.3	21.0
40°-50°	450.0	17.9
50°-60°	304.7	12.1
60°-70°	181.9	7.2
70°-80°	113.7	4.5
80°-90°	48.0	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°	887.4	35.3
0°-40°	1415.7	56.3
0°-60°	2170.4	86.3
0°-90°	2514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1148	1146	1140	1147	1145	109
15°	1109	1105	1102	1109	1104	313
25°	1020	1017	1011	1015	1014	469
35°	864	858	849	840	831	538
45°	631	633	613	523	489	487
55°	401	378	331	295	295	358
65°	222	185	160	172	177	223
75°	118	106	88	116	121	127
85°	47	43	40	51	57	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1151.3	1148.4	1142.0	1149.6	1148.4
5°	1148.4	1145.5	1139.6	1146.6	1144.9
7.5°	1142.6	1139.6	1134.4	1141.4	1138.5
10°	1135.0	1131.5	1126.2	1133.8	1130.9
12.5°	1123.3	1119.8	1115.1	1122.7	1118.6
15°	1109.3	1105.2	1102.3	1109.3	1104.1
17.5°	1092.4	1088.9	1084.8	1091.8	1086.0
20°	1072.0	1069.1	1063.8	1067.9	1065.0
22.5°	1048.7	1044.6	1039.3	1044.0	1039.9
25°	1020.1	1017.2	1010.7	1015.4	1013.7
27.5°	987.4	985.7	978.1	983.9	981.0
30°	952.4	947.8	941.9	943.7	944.3
32.5°	912.2	906.3	901.7	897.6	893.5
35°	863.8	858.5	849.2	840.4	831.1
37.5°	813.6	806.6	797.3	778.0	766.4
40°	755.3	751.8	736.6	709.8	676.0
42.5°	695.8	692.3	678.9	618.8	582.1
45°	631.1	632.8	613.0	522.6	489.3
47.5°	569.2	573.9	530.7	446.2	428.7
50°	507.4	512.7	450.8	385.5	375.0
52.5°	453.2	449.1	384.3	338.3	333.6
55°	400.7	378.5	330.7	295.1	295.1
57.5°	347.0	315.5	281.1	258.4	258.4
60°	301.5	262.5	238.5	223.4	228.0
62.5°	259.5	218.1	197.7	194.8	200.6
65°	221.6	184.9	160.4	171.5	177.3
67.5°	190.7	158.1	131.8	155.1	158.6
70°	162.1	137.6	111.4	142.9	143.5
72.5°	135.9	121.3	95.7	129.5	131.8
75°	117.8	105.6	88.1	115.5	121.3
77.5°	103.2	90.4	81.1	99.7	110.8
80°	88.1	74.1	75.2	84.0	95.1
82.5°	67.7	57.2	59.5	68.8	77.6
85°	46.7	43.2	40.2	50.7	57.2
87.5°	25.1	23.3	20.4	28.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)