

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: P290998

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2511.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

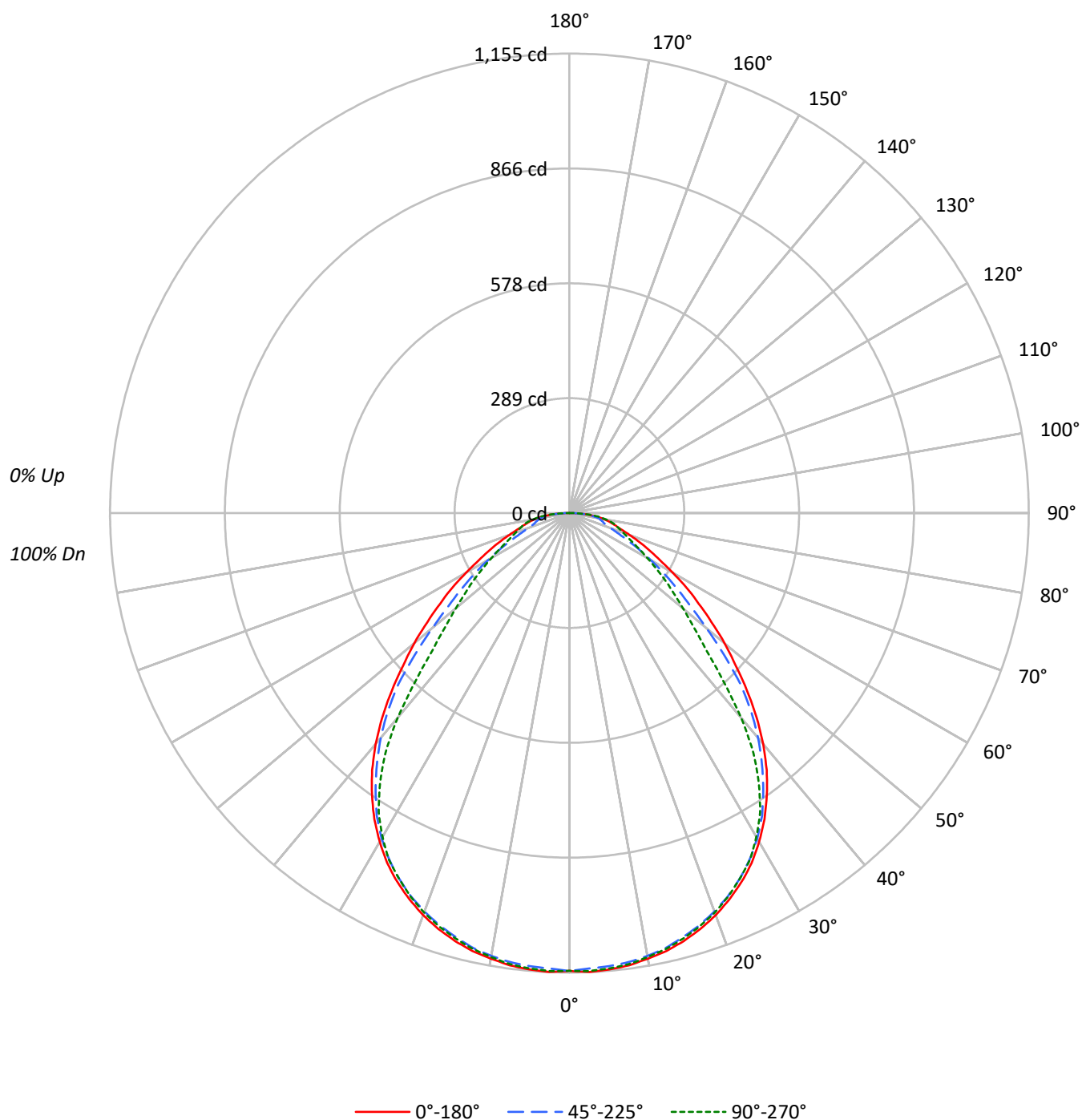
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
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	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3097	3097	3097
5°	3111	3088	3103
10°	3107	3088	3096
15°	3102	3074	3084
20°	3080	3051	3060
25°	3039	3010	3011
30°	2965	2934	2921
35°	2843	2791	2728
40°	2661	2594	2360
45°	2404	2313	1844
50°	2131	1878	1560
55°	1861	1540	1376
60°	1614	1268	1215
65°	1415	1018	1121
70°	1262	862	1129
75°	1231	910	1261
80°	1365	1148	1446
85°	1423	1226	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	4.3
10°-20°	312.7	12.5
20°-30°	467.8	18.6
30°-40°	528.1	21.0
40°-50°	448.0	17.8
50°-60°	303.1	12.1
60°-70°	181.0	7.2
70°-80°	113.3	4.5
80°-90°	47.7	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°	889.8	35.4
0°-40°	1417.9	56.5
0°-60°	2169.0	86.4
0°-90°	2511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1152	1148	1143	1151	1149	109
15°	1113	1111	1103	1111	1107	314
25°	1024	1020	1014	1018	1014	471
35°	866	860	850	842	830	539
45°	632	634	608	521	485	487
55°	397	378	328	294	293	357
65°	222	184	160	170	176	222
75°	118	106	88	116	121	127
85°	46	44	40	51	55	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.7	1150.7	1150.7	1150.7	1150.7
2.5°	1154.7	1151.2	1146.0	1153.0	1152.4
5°	1151.8	1148.3	1143.1	1151.2	1148.9
7.5°	1146.6	1143.7	1138.4	1146.0	1143.7
10°	1137.2	1134.9	1130.2	1136.7	1133.2
12.5°	1127.3	1125.6	1119.7	1125.6	1122.1
15°	1113.3	1111.0	1103.4	1111.0	1106.9
17.5°	1095.8	1092.9	1086.5	1092.9	1089.4
20°	1075.4	1071.9	1065.5	1071.9	1068.4
22.5°	1050.9	1048.0	1042.2	1048.0	1043.3
25°	1023.5	1020.0	1013.6	1018.3	1014.2
27.5°	992.0	987.4	981.5	985.0	982.7
30°	954.1	948.3	944.2	944.2	940.1
32.5°	912.7	908.6	901.6	897.5	892.3
35°	865.5	859.6	849.7	842.1	830.5
37.5°	814.7	807.7	795.5	776.2	760.5
40°	757.6	748.8	738.3	700.4	671.8
42.5°	696.3	694.6	676.5	611.8	572.1
45°	631.6	633.9	607.7	520.8	484.6
47.5°	566.3	574.5	526.6	441.5	422.8
50°	509.1	512.0	448.5	383.2	372.7
52.5°	450.2	445.6	382.6	337.1	329.5
55°	396.6	377.9	328.3	293.9	293.3
57.5°	349.3	314.9	280.5	254.9	257.8
60°	299.8	261.3	235.6	221.6	225.7
62.5°	256.0	219.3	196.5	192.5	199.5
65°	222.2	184.3	159.8	170.3	176.1
67.5°	190.1	158.0	130.1	155.1	157.5
70°	160.4	137.1	109.6	142.9	143.5
72.5°	135.9	121.3	95.1	129.5	131.2
75°	118.4	105.6	87.5	115.5	121.3
77.5°	103.8	90.4	81.1	99.7	109.6
80°	88.1	72.9	74.1	83.4	93.3
82.5°	67.7	56.6	58.9	68.8	75.8
85°	46.1	43.7	39.7	51.3	54.8
87.5°	24.5	23.3	20.4	29.2	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)