

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: P291000

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291000
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

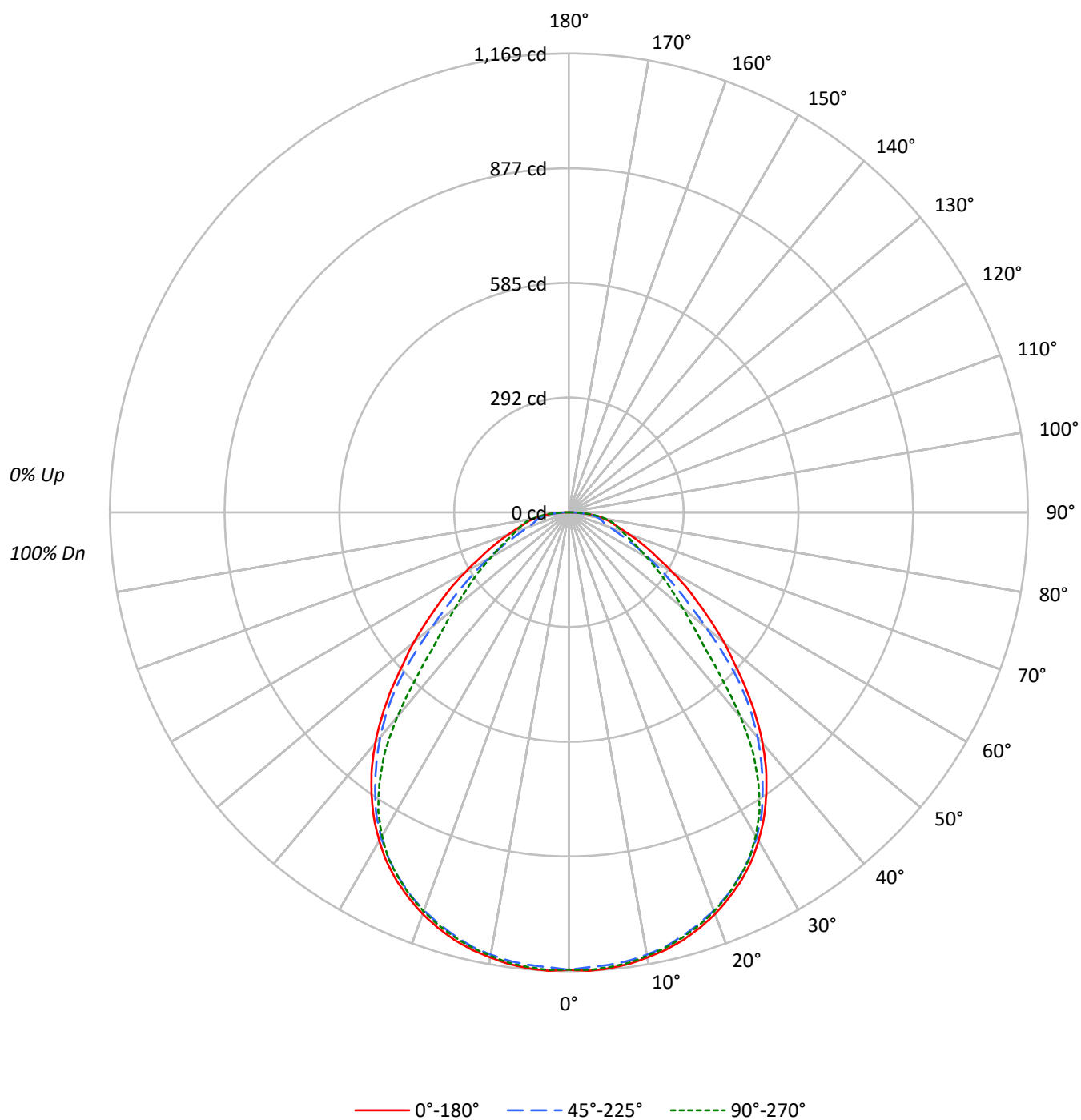
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	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°	3136	3136	3136
5°	3151	3127	3143
10°	3147	3128	3136
15°	3141	3113	3123
20°	3119	3090	3099
25°	3078	3048	3050
30°	3003	2971	2958
35°	2879	2827	2763
40°	2695	2627	2390
45°	2434	2342	1868
50°	2159	1901	1580
55°	1884	1560	1394
60°	1634	1284	1230
65°	1433	1030	1136
70°	1278	873	1143
75°	1247	921	1278
80°	1382	1162	1464
85°	1442	1241	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	4.3
10°-20°	316.7	12.5
20°-30°	473.8	18.6
30°-40°	534.8	21.0
40°-50°	453.7	17.8
50°-60°	307.0	12.1
60°-70°	183.3	7.2
70°-80°	114.8	4.5
80°-90°	48.3	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°	901.1	35.4
0°-40°	1436.0	56.5
0°-60°	2196.7	86.4
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1166	1163	1158	1166	1164	111
15°	1128	1125	1118	1125	1121	318
25°	1037	1033	1026	1031	1027	477
35°	876	871	860	853	841	546
45°	640	642	615	527	491	493
55°	402	383	332	298	297	362
65°	225	187	162	172	178	225
75°	120	107	89	117	123	129
85°	47	44	40	52	56	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.3	1165.3	1165.3	1165.3	1165.3
2.5°	1169.4	1165.9	1160.6	1167.7	1167.1
5°	1166.5	1163.0	1157.6	1165.9	1163.5
7.5°	1161.2	1158.2	1152.9	1160.6	1158.2
10°	1151.7	1149.4	1144.6	1151.1	1147.6
12.5°	1141.7	1139.9	1134.0	1139.9	1136.4
15°	1127.5	1125.2	1117.5	1125.2	1121.0
17.5°	1109.8	1106.8	1100.3	1106.8	1103.3
20°	1089.1	1085.6	1079.1	1085.6	1082.0
22.5°	1064.3	1061.4	1055.5	1061.4	1056.6
25°	1036.6	1033.0	1026.5	1031.2	1027.1
27.5°	1004.7	999.9	994.0	997.6	995.2
30°	966.3	960.4	956.2	956.2	952.1
32.5°	924.3	920.2	913.1	909.0	903.7
35°	876.5	870.6	860.5	852.9	841.1
37.5°	825.1	818.0	805.6	786.1	770.2
40°	767.2	758.4	747.7	709.3	680.4
42.5°	705.2	703.4	685.1	619.6	579.4
45°	639.7	642.0	615.4	527.4	490.8
47.5°	573.5	581.8	533.3	447.1	428.2
50°	515.6	518.6	454.2	388.0	377.4
52.5°	456.0	451.2	387.5	341.4	333.7
55°	401.6	382.7	332.5	297.7	297.1
57.5°	353.8	318.9	284.1	258.1	261.1
60°	303.6	264.6	238.6	224.4	228.6
62.5°	259.3	222.1	199.0	194.9	202.0
65°	225.0	186.6	161.8	172.5	178.4
67.5°	192.5	160.1	131.7	157.1	159.5
70°	162.4	138.8	111.0	144.7	145.3
72.5°	137.6	122.9	96.3	131.1	132.9
75°	119.9	106.9	88.6	116.9	122.9
77.5°	105.1	91.5	82.1	101.0	111.0
80°	89.2	73.8	75.0	84.5	94.5
82.5°	68.5	57.3	59.7	69.7	76.8
85°	46.7	44.3	40.2	52.0	55.5
87.5°	24.8	23.6	20.7	29.5	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)