

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: P291490

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2212.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

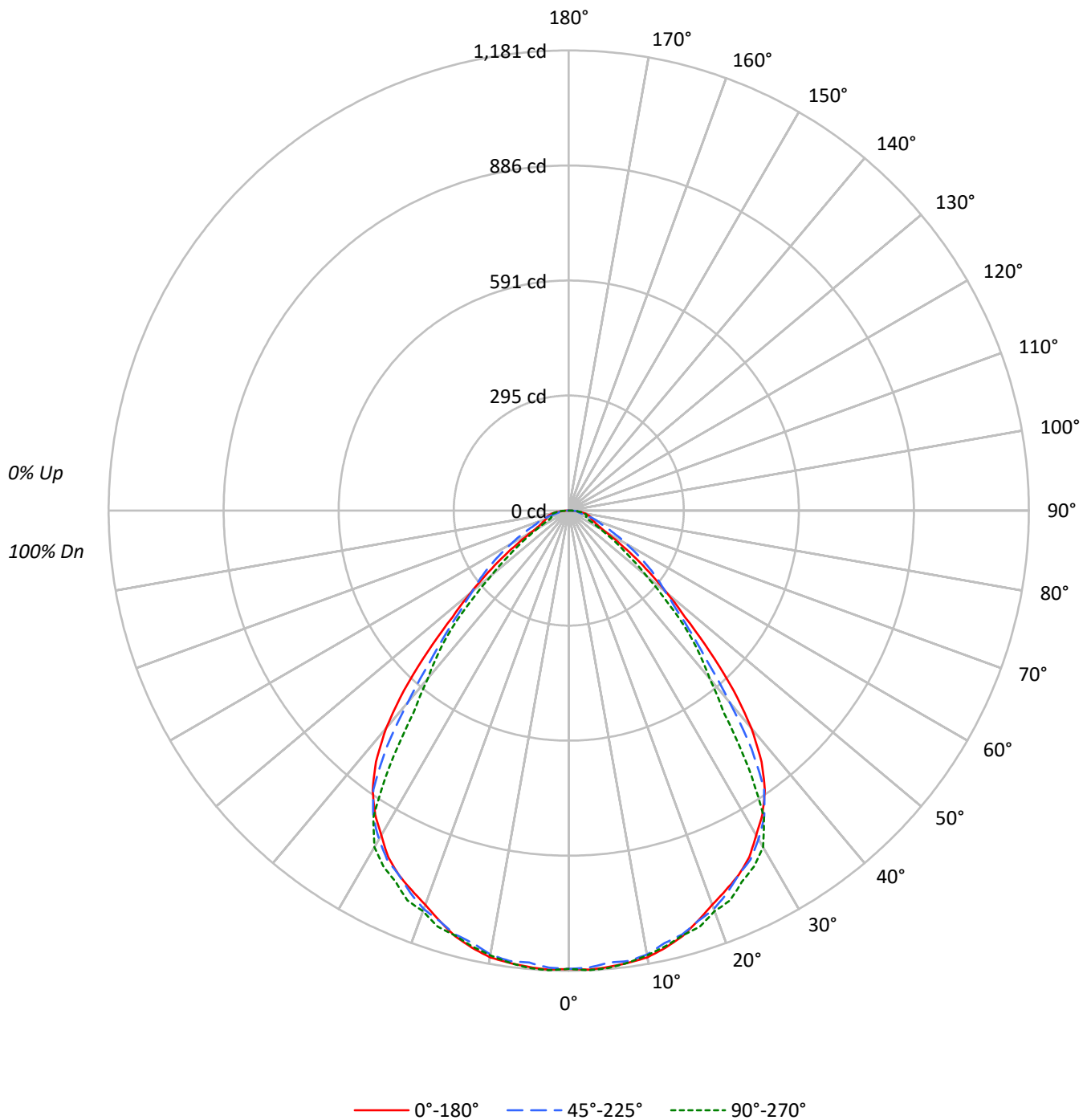
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3165	3165	3165
5°	3176	3146	3183
10°	3181	3161	3167
15°	3149	3137	3144
20°	3083	3116	3133
25°	3064	3062	3121
30°	2990	3026	3100
35°	2883	2871	2638
40°	2559	2259	1978
45°	1942	1690	1600
50°	1378	1353	1086
55°	943	1155	746
60°	583	921	499
65°	480	709	361
70°	478	618	371
75°	574	442	495
80°	659	408	620
85°	627	719	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	5.0
10°-20°	318.5	14.4
20°-30°	479.0	21.7
30°-40°	522.2	23.6
40°-50°	365.7	16.5
50°-60°	207.0	9.4
60°-70°	113.3	5.1
70°-80°	68.6	3.1
80°-90°	26.0	1.2
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°	909.2	41.1
0°-40°	1431.4	64.7
0°-60°	2004.1	90.6
0°-90°	2212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1174	1165	1178	1178	112
15°	1130	1127	1126	1142	1129	318
25°	1032	1034	1031	1055	1051	474
35°	878	874	874	829	803	541
45°	510	533	444	438	420	396
55°	201	240	246	244	159	184
65°	75	124	111	141	57	77
75°	55	80	42	84	48	57
85°	20	33	23	28	23	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.3	1176.3	1176.3	1176.3	1176.3
2.5°	1179.3	1177.8	1174.2	1181.3	1180.8
5°	1175.7	1173.7	1164.6	1178.3	1178.3
7.5°	1170.7	1165.6	1166.1	1173.7	1170.2
10°	1164.1	1155.5	1157.0	1159.0	1159.0
12.5°	1148.9	1140.8	1136.8	1143.3	1145.4
15°	1130.2	1127.1	1126.1	1142.3	1128.7
17.5°	1103.8	1110.4	1104.4	1117.5	1119.5
20°	1076.5	1089.2	1088.2	1097.3	1094.2
22.5°	1054.2	1062.3	1062.3	1073.5	1082.6
25°	1031.9	1034.0	1031.4	1055.2	1051.2
27.5°	1003.1	1001.6	1009.7	1021.8	1029.9
30°	962.1	962.6	973.7	989.9	997.5
32.5°	924.6	920.0	933.7	940.8	932.7
35°	877.5	873.5	874.0	829.4	803.1
37.5°	813.2	816.7	770.2	688.6	654.2
40°	728.6	735.7	643.1	582.3	563.1
42.5°	626.4	628.4	527.1	507.4	494.7
45°	510.4	532.7	444.1	438.5	420.3
47.5°	404.6	446.1	372.2	375.7	332.2
50°	329.1	370.6	323.1	324.6	259.3
52.5°	260.3	300.8	285.1	280.5	203.6
55°	201.0	240.5	246.1	244.1	159.0
57.5°	147.9	190.4	206.6	214.2	122.5
60°	108.4	155.5	171.1	186.3	92.7
62.5°	86.1	134.7	140.3	162.5	71.9
65°	75.4	124.1	111.4	140.8	56.7
67.5°	67.3	118.0	90.6	124.6	49.6
70°	60.8	106.3	78.5	111.4	47.1
72.5°	60.8	93.2	61.8	98.7	47.6
75°	55.2	79.5	42.5	83.5	47.6
77.5°	49.1	67.9	31.9	67.9	44.6
80°	42.5	53.2	26.3	52.2	40.0
82.5°	31.4	40.0	22.8	39.0	32.4
85°	20.3	32.9	23.3	28.4	22.8
87.5°	9.6	16.7	14.7	14.2	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)