

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: P291487

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291487
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2126.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

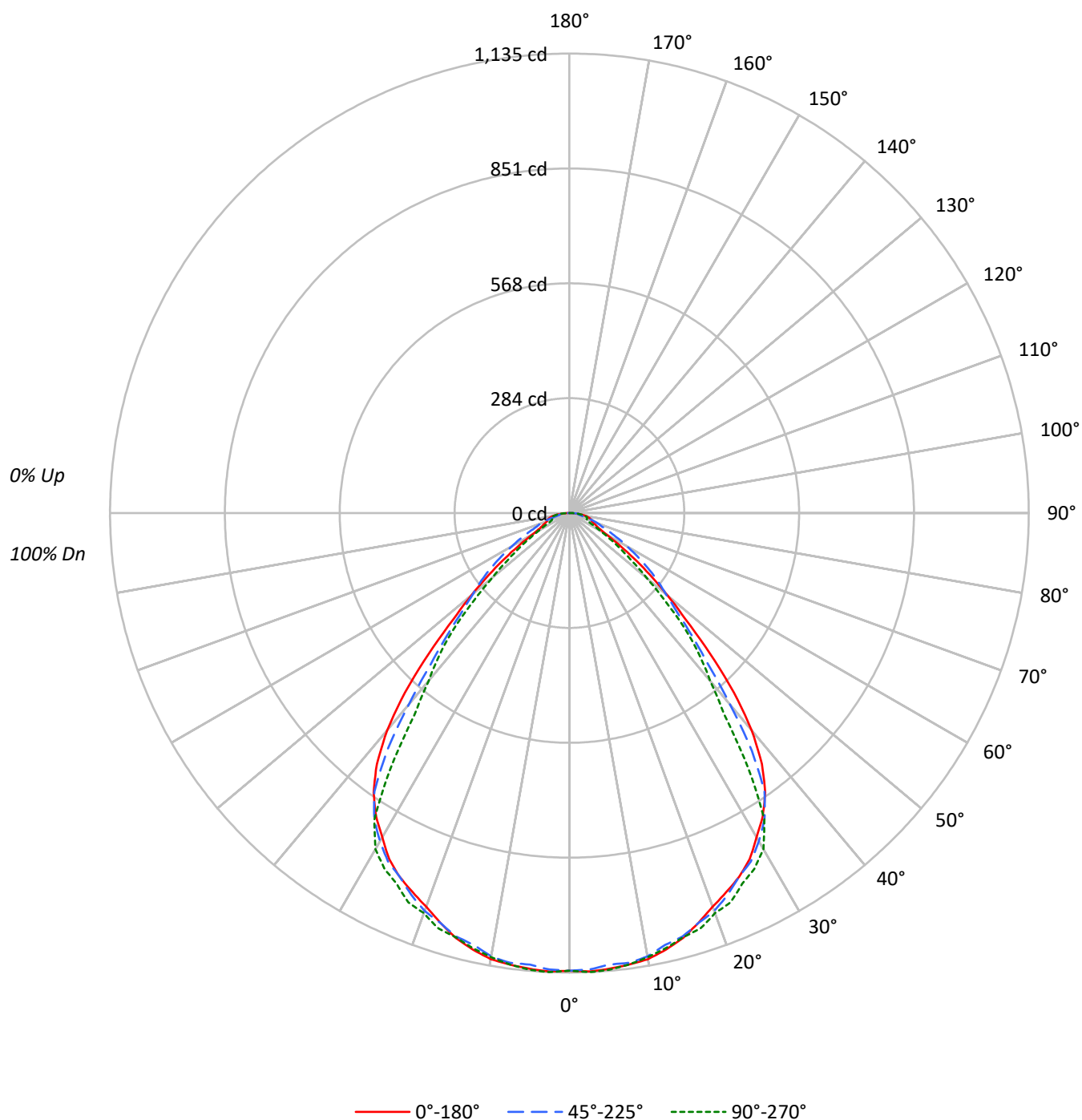
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77		
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68		
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61		
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3042	3042	3042
5°	3052	3024	3059
10°	3057	3039	3044
15°	3026	3015	3022
20°	2963	2995	3012
25°	2945	2943	3000
30°	2873	2908	2979
35°	2771	2759	2536
40°	2460	2171	1901
45°	1867	1624	1537
50°	1324	1300	1043
55°	906	1110	717
60°	560	885	480
65°	462	682	347
70°	459	593	356
75°	551	425	475
80°	634	392	595
85°	602	692	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	5.0
10°-20°	306.2	14.4
20°-30°	460.4	21.7
30°-40°	501.9	23.6
40°-50°	351.5	16.5
50°-60°	198.9	9.4
60°-70°	108.9	5.1
70°-80°	66.0	3.1
80°-90°	25.0	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°	873.8	41.1
0°-40°	1375.8	64.7
0°-60°	1926.2	90.6
0°-90°	2126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1130	1128	1119	1132	1132	108
15°	1086	1083	1082	1098	1085	305
25°	992	994	991	1014	1010	456
35°	843	840	840	797	772	520
45°	491	512	427	422	404	381
55°	193	231	236	235	153	177
65°	72	119	107	135	54	74
75°	53	76	41	80	46	55
85°	20	32	22	27	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.5	1130.5	1130.5	1130.5	1130.5
2.5°	1133.4	1132.0	1128.6	1135.4	1134.9
5°	1130.0	1128.1	1119.3	1132.5	1132.5
7.5°	1125.2	1120.3	1120.8	1128.1	1124.7
10°	1118.8	1110.6	1112.0	1114.0	1114.0
12.5°	1104.2	1096.5	1092.6	1098.9	1100.8
15°	1086.2	1083.3	1082.3	1097.9	1084.8
17.5°	1060.9	1067.3	1061.4	1074.1	1076.0
20°	1034.7	1046.8	1045.8	1054.6	1051.7
22.5°	1013.2	1021.0	1021.0	1031.7	1040.5
25°	991.8	993.8	991.3	1014.2	1010.3
27.5°	964.1	962.6	970.4	982.1	989.9
30°	924.7	925.2	935.9	951.4	958.7
32.5°	888.7	884.3	897.4	904.2	896.4
35°	843.4	839.5	840.0	797.2	771.9
37.5°	781.6	785.0	740.2	661.9	628.8
40°	700.3	707.1	618.1	559.7	541.2
42.5°	602.0	604.0	506.6	487.6	475.5
45°	490.6	512.0	426.8	421.5	403.9
47.5°	388.8	428.8	357.7	361.1	319.3
50°	316.3	356.2	310.5	312.0	249.2
52.5°	250.1	289.1	274.0	269.6	195.6
55°	193.2	231.2	236.5	234.6	152.8
57.5°	142.1	183.0	198.6	205.9	117.8
60°	104.1	149.4	164.5	179.1	89.1
62.5°	82.7	129.5	134.8	156.2	69.1
65°	72.5	119.2	107.1	135.3	54.5
67.5°	64.7	113.4	87.1	119.7	47.7
70°	58.4	102.2	75.4	107.1	45.3
72.5°	58.4	89.5	59.4	94.9	45.7
75°	53.0	76.4	40.9	80.3	45.7
77.5°	47.2	65.2	30.7	65.2	42.8
80°	40.9	51.1	25.3	50.1	38.4
82.5°	30.2	38.4	21.9	37.5	31.1
85°	19.5	31.6	22.4	27.3	21.9
87.5°	9.2	16.1	14.1	13.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)