

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: P291341

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291341
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-LD5-20-A19/156-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

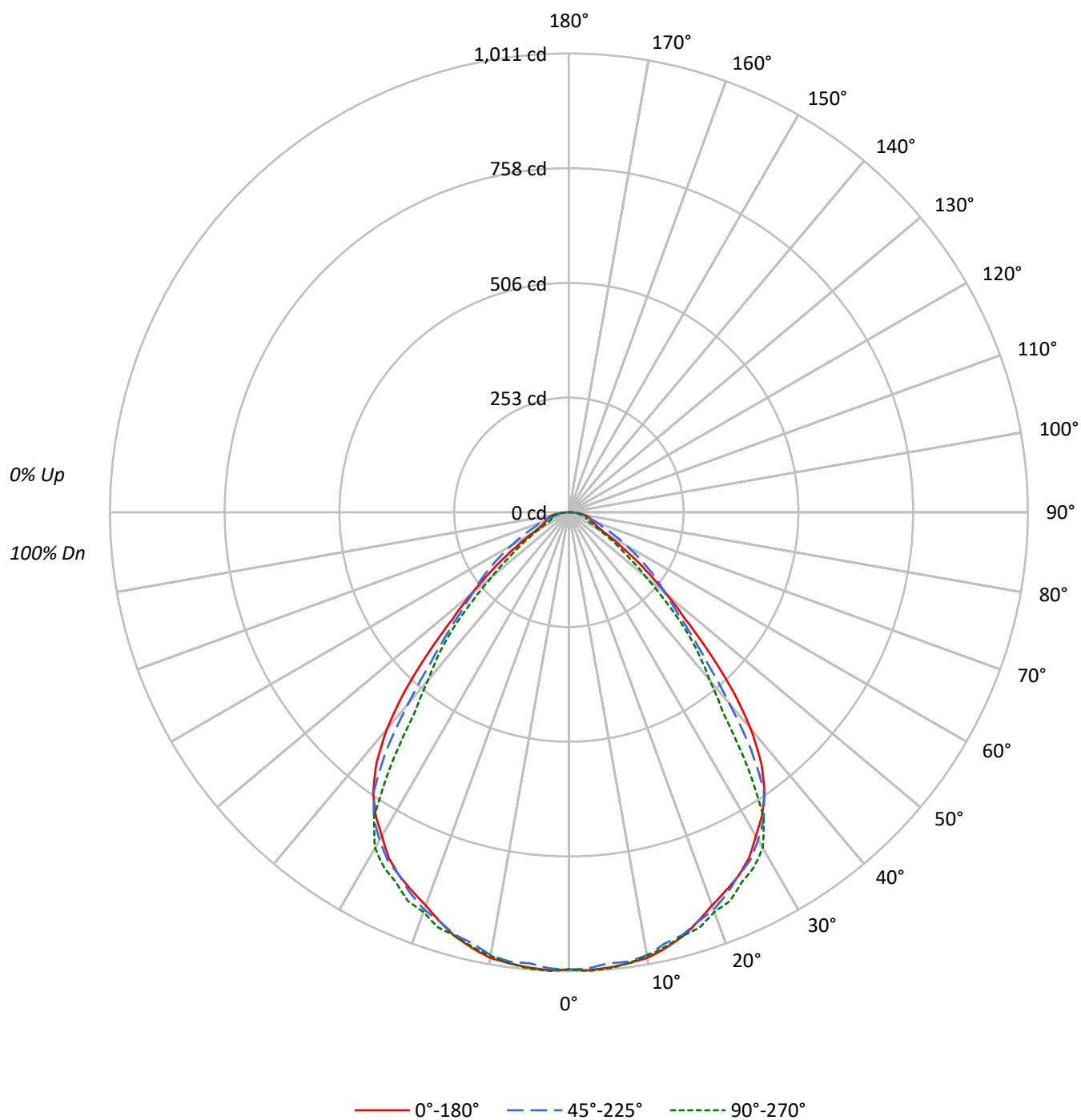
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2710	2710	2710
5°	2719	2694	2725
10°	2724	2707	2712
15°	2696	2686	2692
20°	2639	2668	2683
25°	2624	2622	2673
30°	2560	2591	2654
35°	2468	2458	2259
40°	2192	1934	1694
45°	1663	1447	1370
50°	1180	1158	929
55°	807	989	639
60°	499	788	427
65°	411	607	309
70°	409	529	317
75°	492	378	424
80°	564	349	532
85°	534	614	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	5.0
10°-20°	272.8	14.4
20°-30°	410.2	21.7
30°-40°	447.2	23.6
40°-50°	313.1	16.5
50°-60°	177.2	9.4
60°-70°	97.0	5.1
70°-80°	58.8	3.1
80°-90°	22.3	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°	778.5	41.1
0°-40°	1225.6	64.7
0°-60°	1716.0	90.6
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1007	1005	997	1009	1009	96
15°	968	965	964	978	966	272
25°	884	885	883	904	900	406
35°	751	748	748	710	688	463
45°	437	456	380	376	360	339
55°	172	206	211	209	136	157
65°	65	106	95	120	49	66
75°	47	68	36	72	41	49
85°	17	28	20	24	20	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.2	1007.2	1007.2	1007.2	1007.2
2.5°	1009.8	1008.5	1005.4	1011.5	1011.1
5°	1006.7	1005.0	997.2	1008.9	1008.9
7.5°	1002.4	998.1	998.5	1005.0	1002.0
10°	996.8	989.4	990.7	992.4	992.4
12.5°	983.7	976.8	973.3	979.0	980.7
15°	967.7	965.1	964.2	978.1	966.4
17.5°	945.2	950.8	945.6	956.9	958.6
20°	921.7	932.6	931.7	939.5	936.9
22.5°	902.7	909.6	909.6	919.1	926.9
25°	883.6	885.3	883.2	903.5	900.1
27.5°	858.9	857.6	864.5	874.9	881.9
30°	823.8	824.2	833.7	847.6	854.1
32.5°	791.7	787.8	799.5	805.6	798.6
35°	751.4	747.9	748.3	710.2	687.6
37.5°	696.3	699.3	659.4	589.6	560.2
40°	623.9	630.0	550.6	498.6	482.1
42.5°	536.3	538.0	451.3	434.4	423.6
45°	437.0	456.1	380.2	375.5	359.9
47.5°	346.4	382.0	318.7	321.7	284.4
50°	281.8	317.4	276.6	277.9	222.0
52.5°	222.8	257.5	244.1	240.2	174.3
55°	172.1	205.9	210.7	209.0	136.1
57.5°	126.6	163.0	176.9	183.4	104.9
60°	92.8	133.1	146.5	159.5	79.3
62.5°	73.7	115.3	120.1	139.2	61.6
65°	64.6	106.2	95.4	120.5	48.6
67.5°	57.7	101.0	77.6	106.7	42.5
70°	52.0	91.0	67.2	95.4	40.3
72.5°	52.0	79.8	52.9	84.5	40.8
75°	47.3	68.1	36.4	71.5	40.8
77.5°	42.1	58.1	27.3	58.1	38.2
80°	36.4	45.5	22.5	44.7	34.3
82.5°	26.9	34.3	19.5	33.4	27.7
85°	17.3	28.2	19.9	24.3	19.5
87.5°	8.2	14.3	12.6	12.1	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)