

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: P292656

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A19/156-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

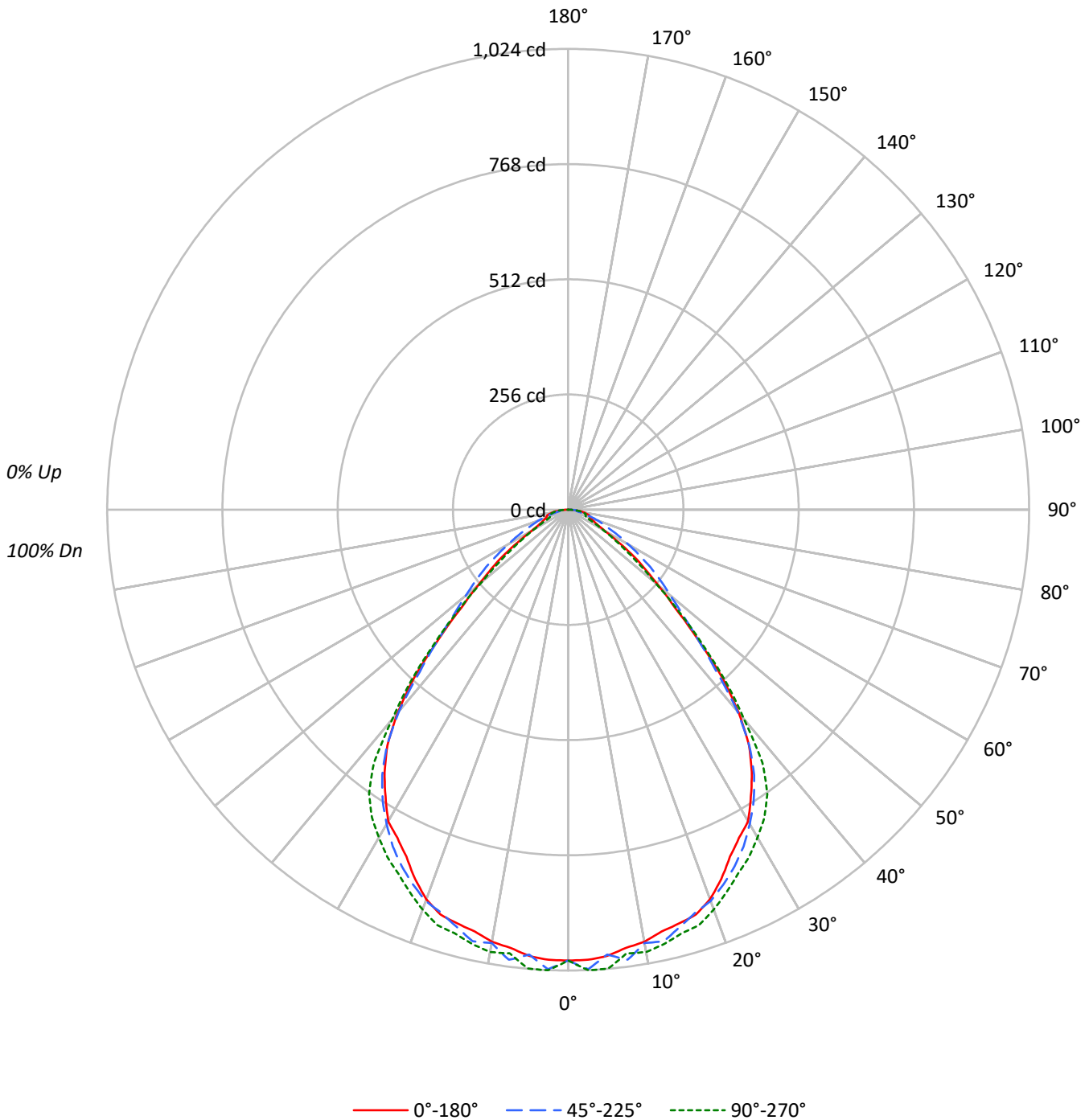
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2696	2696	2696
5°	2689	2680	2764
10°	2664	2672	2727
15°	2652	2672	2715
20°	2638	2651	2708
25°	2525	2596	2650
30°	2484	2506	2613
35°	2336	2365	2533
40°	2070	2055	2136
45°	1546	1549	1592
50°	1088	1238	1054
55°	803	1045	720
60°	502	826	470
65°	409	655	329
70°	406	545	324
75°	504	400	419
80°	561	316	513
85°	559	587	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	5.0
10°-20°	271.6	14.1
20°-30°	402.3	20.9
30°-40°	450.6	23.4
40°-50°	331.1	17.2
50°-60°	185.1	9.6
60°-70°	103.1	5.4
70°-80°	60.6	3.2
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°	769.2	40.0
0°-40°	1219.8	63.5
0°-60°	1736.0	90.3
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	995	1014	992	1013	1023	94
15°	952	958	959	974	974	269
25°	850	857	874	887	893	394
35°	711	711	720	753	771	440
45°	406	439	407	436	418	317
55°	171	208	223	222	154	153
65°	64	114	103	132	52	67
75°	48	68	38	77	40	49
85°	18	27	19	24	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.7	1001.7	1001.7	1001.7	1001.7
2.5°	1001.2	1010.3	1022.1	1023.4	1024.3
5°	995.4	1013.9	992.2	1012.6	1023.4
7.5°	981.8	993.1	1008.9	988.6	994.4
10°	975.0	977.7	977.7	1003.1	998.1
12.5°	959.6	977.7	982.2	977.2	988.1
15°	951.9	957.8	959.1	973.6	974.5
17.5°	943.3	941.9	938.7	949.2	967.7
20°	921.1	916.1	925.6	938.3	945.5
22.5°	888.5	889.8	901.2	911.6	919.7
25°	850.4	857.2	874.4	886.7	892.6
27.5°	821.9	831.9	843.7	858.1	869.9
30°	799.3	798.4	806.5	827.3	840.9
32.5°	755.3	758.5	767.1	792.0	811.0
35°	711.0	711.4	720.0	752.6	771.2
37.5°	659.8	656.2	661.2	696.5	708.7
40°	589.2	590.1	585.1	610.0	608.2
42.5°	506.7	514.0	488.2	520.8	518.5
45°	406.2	439.3	407.1	436.1	418.4
47.5°	320.6	369.5	342.8	364.1	331.0
50°	259.9	310.2	295.7	305.2	251.8
52.5°	213.3	254.0	258.6	260.8	196.5
55°	171.2	208.3	222.8	222.3	153.5
57.5°	126.3	169.4	186.1	192.9	116.4
60°	93.3	140.8	153.5	168.5	87.4
62.5°	75.2	123.6	126.8	147.6	66.6
65°	64.3	114.1	102.8	131.8	51.6
67.5°	57.1	106.4	83.8	117.7	43.9
70°	51.6	94.6	69.3	105.5	41.2
72.5°	50.3	80.6	53.4	94.2	40.8
75°	48.5	68.4	38.5	77.4	40.3
77.5°	41.7	58.4	27.6	59.8	37.6
80°	36.2	46.6	20.4	44.8	33.1
82.5°	28.1	35.3	18.1	34.0	26.7
85°	18.1	26.7	19.0	24.5	18.6
87.5°	8.6	14.9	13.6	13.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)