

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: P292553

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292553
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-L82765-W2A1-U-3000K
Description: GRLED 2x2 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: 1933.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

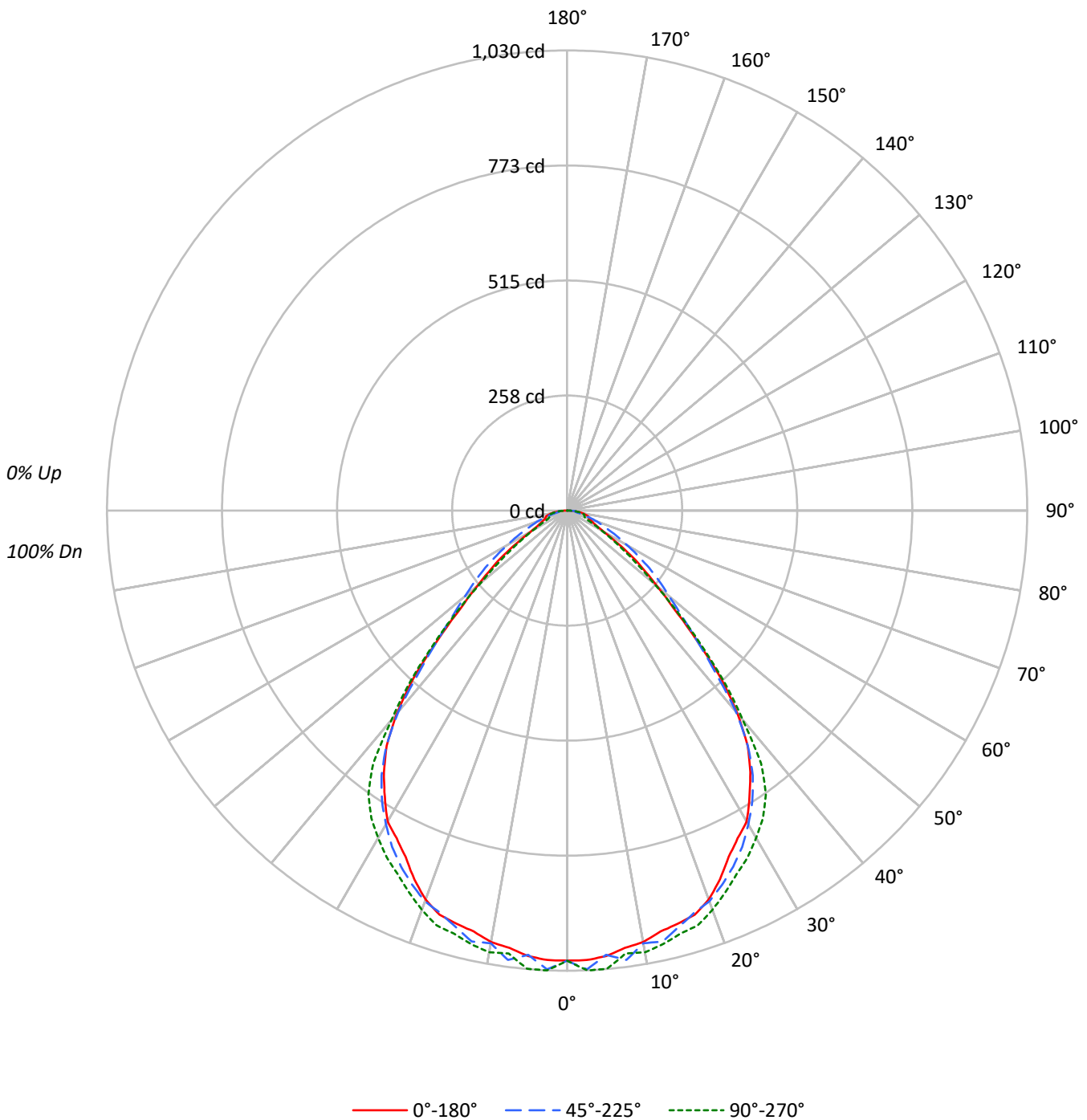
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2711	2711	2711
5°	2704	2696	2780
10°	2679	2687	2743
15°	2667	2687	2730
20°	2653	2666	2723
25°	2540	2611	2665
30°	2498	2520	2628
35°	2349	2379	2548
40°	2081	2067	2149
45°	1555	1558	1601
50°	1094	1245	1060
55°	808	1051	724
60°	505	831	473
65°	412	658	330
70°	408	548	326
75°	506	402	421
80°	564	318	514
85°	562	590	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	5.0
10°-20°	273.2	14.1
20°-30°	404.6	20.9
30°-40°	453.2	23.4
40°-50°	333.0	17.2
50°-60°	186.1	9.6
60°-70°	103.7	5.4
70°-80°	60.9	3.2
80°-90°	22.4	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°	773.6	40.0
0°-40°	1226.8	63.5
0°-60°	1745.9	90.3
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1001	1020	998	1018	1029	95
15°	957	963	965	979	980	270
25°	855	862	879	892	898	396
35°	715	716	724	757	776	443
45°	408	442	409	439	421	319
55°	172	210	224	224	154	154
65°	65	115	103	132	52	67
75°	49	69	39	78	40	49
85°	18	27	19	25	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.4	1007.4	1007.4	1007.4	1007.4
2.5°	1007.0	1016.1	1027.9	1029.3	1030.2
5°	1001.0	1019.7	997.9	1018.4	1029.3
7.5°	987.4	998.8	1014.7	994.2	1000.1
10°	980.6	983.3	983.3	1008.8	1003.8
12.5°	965.1	983.3	987.8	982.8	993.8
15°	957.3	963.2	964.6	979.2	980.1
17.5°	948.7	947.3	944.1	954.6	973.3
20°	926.4	921.3	930.9	943.7	951.0
22.5°	893.6	894.9	906.3	916.8	925.0
25°	855.3	862.1	879.4	891.7	897.7
27.5°	826.6	836.6	848.5	863.1	874.9
30°	803.8	802.9	811.1	832.1	845.7
32.5°	759.7	762.9	771.5	796.6	815.7
35°	715.0	715.5	724.1	756.9	775.6
37.5°	663.6	659.9	664.9	700.5	712.8
40°	592.5	593.4	588.4	613.5	611.7
42.5°	509.6	516.9	491.0	523.8	521.5
45°	408.5	441.8	409.4	438.6	420.8
47.5°	322.4	371.6	344.8	366.2	332.9
50°	261.4	312.0	297.4	307.0	253.2
52.5°	214.5	255.5	260.1	262.3	197.7
55°	172.2	209.5	224.1	223.6	154.4
57.5°	127.1	170.3	187.2	194.0	117.0
60°	93.8	141.6	154.4	169.4	87.9
62.5°	75.6	124.3	127.5	148.5	66.9
65°	64.7	114.8	103.4	132.5	51.9
67.5°	57.4	107.0	84.3	118.4	44.2
70°	51.9	95.2	69.7	106.1	41.4
72.5°	50.6	81.1	53.7	94.7	41.0
75°	48.7	68.8	38.7	77.9	40.5
77.5°	41.9	58.8	27.8	60.1	37.8
80°	36.4	46.9	20.5	45.1	33.2
82.5°	28.2	35.5	18.2	34.2	26.9
85°	18.2	26.9	19.1	24.6	18.7
87.5°	8.7	15.0	13.7	13.2	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)