

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: P292555

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292555
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

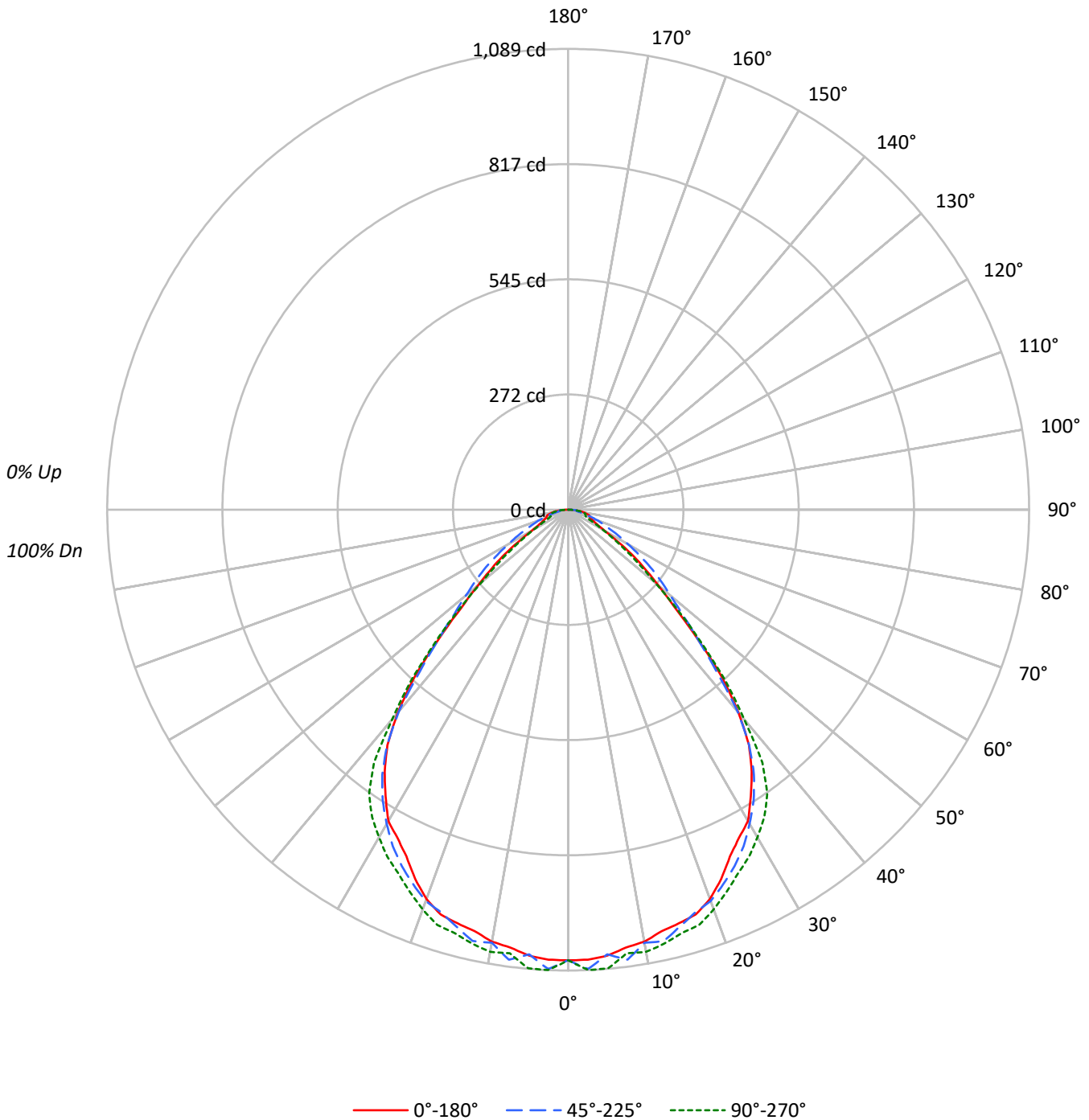
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292555

CATALOG NUMBER: 22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292555

CATALOG NUMBER: 22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-4000K

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°	2865	2865	2865
5°	2858	2849	2939
10°	2832	2840	2899
15°	2819	2840	2886
20°	2804	2818	2878
25°	2684	2760	2817
30°	2640	2664	2778
35°	2483	2514	2693
40°	2200	2185	2271
45°	1643	1647	1693
50°	1157	1316	1120
55°	854	1111	766
60°	534	878	500
65°	436	696	350
70°	432	579	345
75°	535	425	445
80°	597	336	544
85°	596	624	608



TEST NUMBER: P292555

CATALOG NUMBER: 22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	5.0
10°-20°	288.7	14.1
20°-30°	427.6	20.9
30°-40°	479.0	23.4
40°-50°	351.9	17.2
50°-60°	196.7	9.6
60°-70°	109.7	5.4
70°-80°	64.4	3.2
80°-90°	23.7	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°	817.7	40.0
0°-40°	1296.6	63.5
0°-60°	1845.3	90.3
0°-90°	2043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1058	1078	1055	1076	1088	100
15°	1012	1018	1020	1035	1036	286
25°	904	911	930	942	949	419
35°	756	756	765	800	820	468
45°	432	467	433	464	445	337
55°	182	221	237	236	163	162
65°	68	121	109	140	55	71
75°	52	73	41	82	43	52
85°	19	28	20	26	20	21
90°	0	0	0	0	0	



TEST NUMBER: P292555

CATALOG NUMBER: 22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.8	1064.8	1064.8	1064.8	1064.8
2.5°	1064.3	1073.9	1086.4	1087.9	1088.8
5°	1058.0	1077.8	1054.6	1076.3	1087.9
7.5°	1043.6	1055.6	1072.5	1050.8	1057.1
10°	1036.4	1039.2	1039.2	1066.2	1060.9
12.5°	1020.0	1039.2	1044.1	1038.8	1050.3
15°	1011.8	1018.1	1019.5	1034.9	1035.9
17.5°	1002.7	1001.2	997.8	1008.9	1028.7
20°	979.1	973.8	983.9	997.4	1005.1
22.5°	944.4	945.9	957.9	969.0	977.6
25°	904.0	911.2	929.5	942.5	948.7
27.5°	873.7	884.2	896.8	912.2	924.7
30°	849.6	848.6	857.3	879.4	893.9
32.5°	802.9	806.3	815.4	841.9	862.1
35°	755.7	756.2	765.4	800.0	819.7
37.5°	701.3	697.5	702.8	740.3	753.3
40°	626.2	627.2	621.9	648.4	646.5
42.5°	538.6	546.3	518.9	553.6	551.2
45°	431.8	466.9	432.7	463.5	444.8
47.5°	340.8	392.8	364.4	387.0	351.9
50°	276.3	329.7	314.3	324.4	267.6
52.5°	226.7	270.0	274.9	277.3	208.9
55°	182.0	221.4	236.8	236.3	163.2
57.5°	134.3	180.0	197.8	205.1	123.7
60°	99.2	149.7	163.2	179.1	92.9
62.5°	79.9	131.4	134.8	156.9	70.8
65°	68.4	121.3	109.3	140.1	54.9
67.5°	60.7	113.1	89.1	125.2	46.7
70°	54.9	100.6	73.6	112.2	43.8
72.5°	53.4	85.7	56.8	100.1	43.3
75°	51.5	72.7	40.9	82.3	42.8
77.5°	44.3	62.1	29.4	63.5	40.0
80°	38.5	49.6	21.7	47.7	35.1
82.5°	29.8	37.5	19.3	36.1	28.4
85°	19.3	28.4	20.2	26.0	19.7
87.5°	9.1	15.9	14.4	14.0	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)