

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: P292667

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292667
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-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

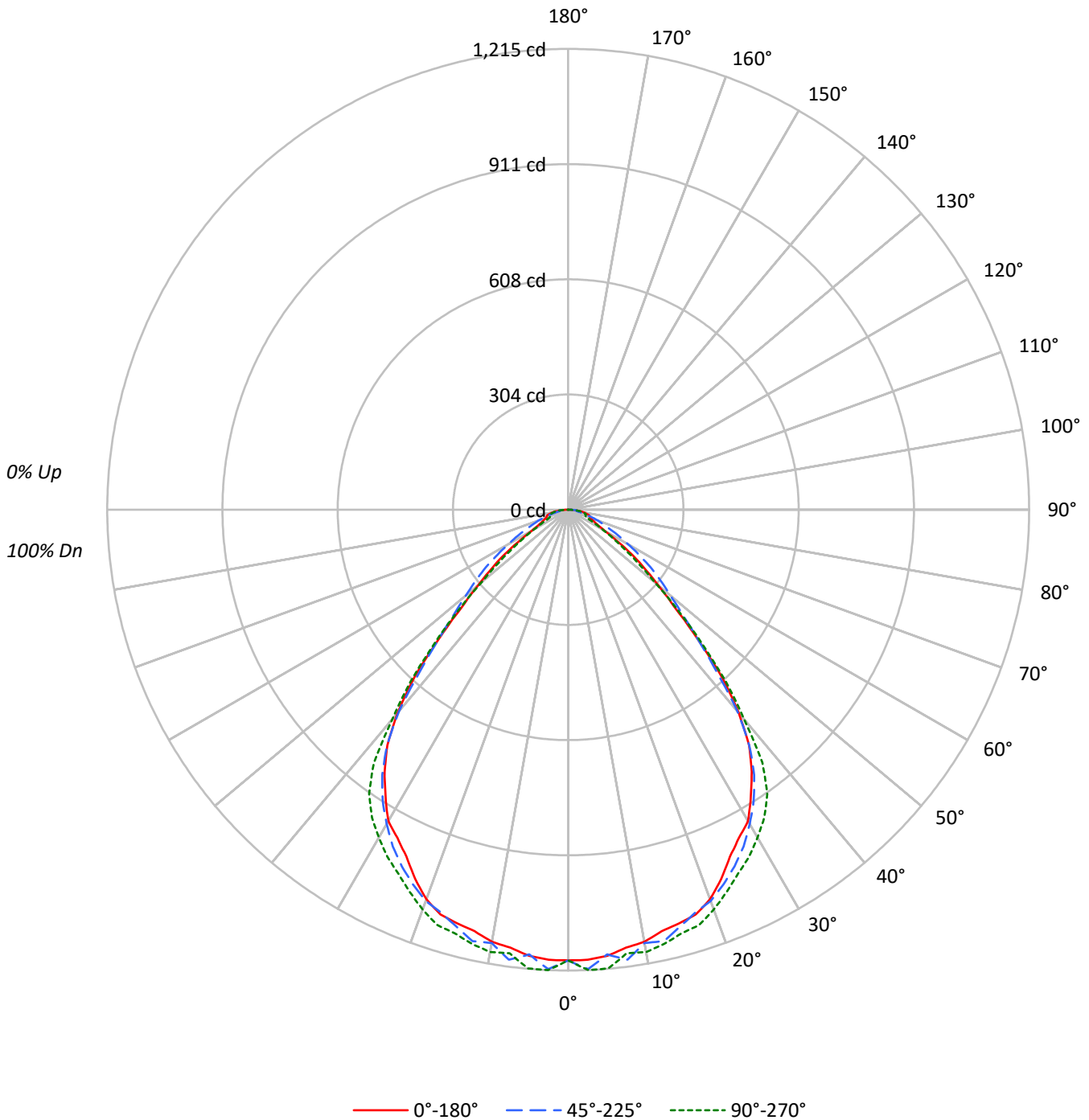
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292667

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292667

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	3198	3198	3198
5°	3190	3179	3280
10°	3160	3169	3235
15°	3146	3170	3221
20°	3129	3144	3212
25°	2995	3080	3144
30°	2946	2973	3100
35°	2771	2806	3005
40°	2455	2438	2535
45°	1834	1838	1889
50°	1291	1469	1250
55°	953	1240	854
60°	596	980	558
65°	486	776	390
70°	482	647	385
75°	598	475	497
80°	666	375	607
85°	664	698	679



TEST NUMBER: P292667

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	5.0
10°-20°	322.2	14.1
20°-30°	477.2	20.9
30°-40°	534.5	23.4
40°-50°	392.8	17.2
50°-60°	219.5	9.6
60°-70°	122.4	5.4
70°-80°	71.9	3.2
80°-90°	26.4	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°	912.5	40.0
0°-40°	1447.0	63.5
0°-60°	2059.3	90.3
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1181	1203	1177	1201	1214	112
15°	1129	1136	1138	1155	1156	319
25°	1009	1017	1037	1052	1059	468
35°	843	844	854	893	915	522
45°	482	521	483	517	496	376
55°	203	247	264	264	182	181
65°	76	135	122	156	61	79
75°	58	81	46	92	48	58
85°	22	32	23	29	22	24
90°	0	0	0	0	0	



TEST NUMBER: P292667

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1187.7	1198.5	1212.4	1214.1	1215.1
5°	1180.8	1202.8	1177.0	1201.2	1214.1
7.5°	1164.6	1178.1	1196.9	1172.7	1179.7
10°	1156.6	1159.8	1159.8	1189.9	1184.0
12.5°	1138.3	1159.8	1165.2	1159.3	1172.2
15°	1129.2	1136.2	1137.8	1155.0	1156.0
17.5°	1119.0	1117.4	1113.6	1126.0	1148.0
20°	1092.7	1086.7	1098.0	1113.1	1121.7
22.5°	1054.0	1055.6	1069.0	1081.4	1091.0
25°	1008.8	1016.9	1037.3	1051.8	1058.8
27.5°	975.0	986.8	1000.8	1018.0	1031.9
30°	948.1	947.1	956.7	981.5	997.6
32.5°	896.0	899.8	910.0	939.6	962.1
35°	843.4	843.9	854.1	892.8	914.8
37.5°	782.7	778.4	784.3	826.2	840.7
40°	698.9	700.0	694.1	723.6	721.5
42.5°	601.1	609.7	579.1	617.8	615.1
45°	481.9	521.1	482.9	517.3	496.4
47.5°	380.3	438.4	406.7	431.9	392.7
50°	308.3	368.0	350.8	362.1	298.7
52.5°	253.0	301.4	306.7	309.4	233.1
55°	203.1	247.1	264.3	263.8	182.1
57.5°	149.9	200.9	220.8	228.8	138.1
60°	110.7	167.1	182.1	199.8	103.7
62.5°	89.2	146.7	150.4	175.1	79.0
65°	76.3	135.4	121.9	156.3	61.2
67.5°	67.7	126.2	99.4	139.7	52.1
70°	61.2	112.3	82.2	125.2	48.9
72.5°	59.6	95.6	63.4	111.7	48.3
75°	57.5	81.1	45.7	91.9	47.8
77.5°	49.4	69.3	32.8	70.9	44.6
80°	43.0	55.3	24.2	53.2	39.2
82.5°	33.3	41.9	21.5	40.3	31.7
85°	21.5	31.7	22.6	29.0	22.0
87.5°	10.2	17.7	16.1	15.6	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)