

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: P292567

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292567
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-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

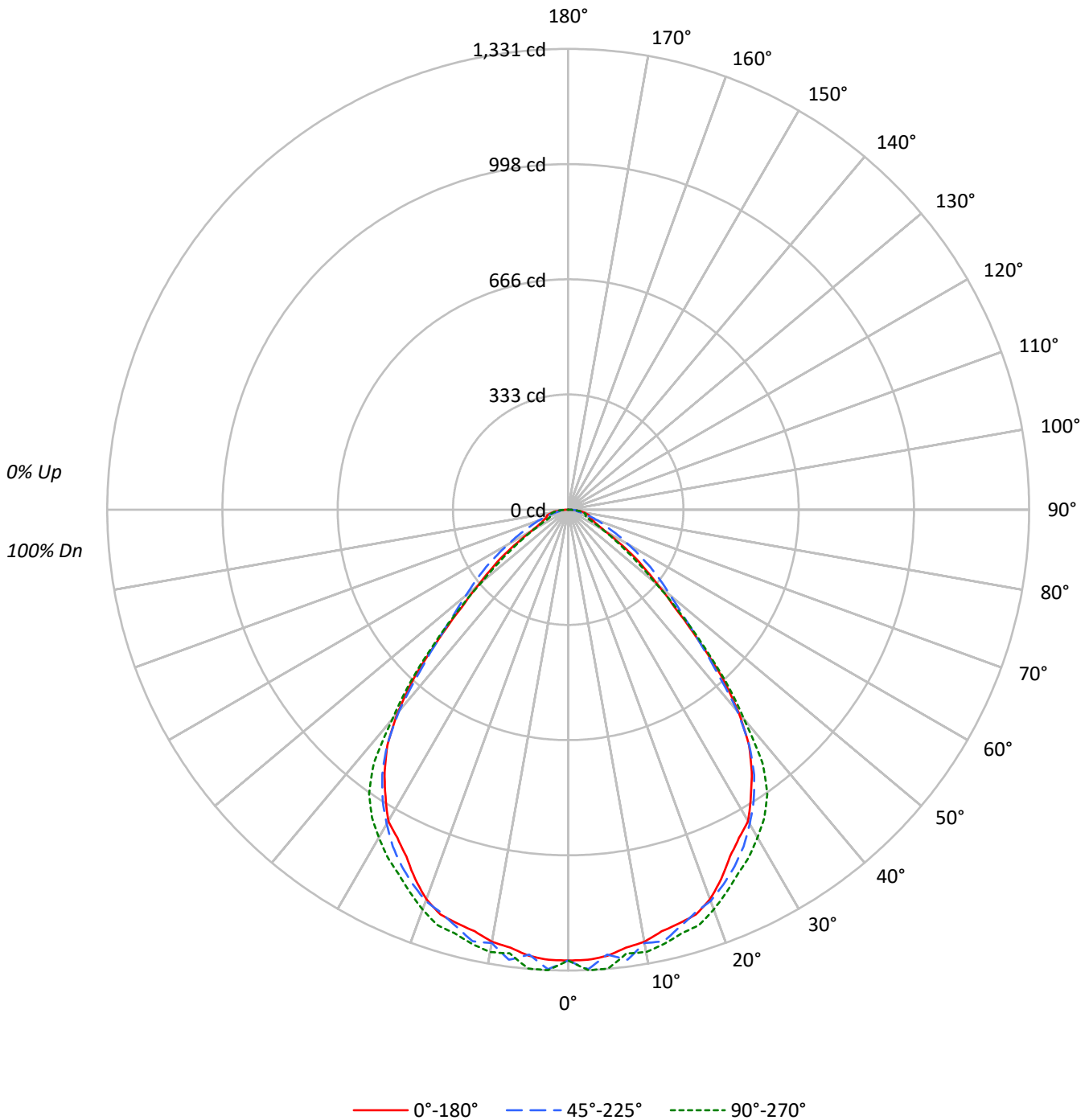
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292567

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P292567

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5500K

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°	3503	3503	3503
5°	3494	3483	3593
10°	3463	3472	3545
15°	3446	3473	3529
20°	3428	3445	3519
25°	3282	3374	3444
30°	3228	3257	3396
35°	3035	3074	3293
40°	2690	2671	2777
45°	2009	2014	2069
50°	1414	1609	1370
55°	1044	1359	936
60°	652	1074	611
65°	532	851	427
70°	528	708	422
75°	655	520	545
80°	730	411	666
85°	726	763	744



TEST NUMBER: P292567

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	5.0
10°-20°	353.0	14.1
20°-30°	522.8	20.9
30°-40°	585.6	23.4
40°-50°	430.3	17.2
50°-60°	240.5	9.6
60°-70°	134.1	5.4
70°-80°	78.8	3.2
80°-90°	28.9	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°	999.8	40.0
0°-40°	1585.4	63.5
0°-60°	2256.2	90.3
0°-90°	2498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1294	1318	1290	1316	1330	122
15°	1237	1245	1247	1265	1267	349
25°	1105	1114	1136	1152	1160	512
35°	924	925	936	978	1002	572
45°	528	571	529	567	544	412
55°	222	271	290	289	200	198
65°	84	148	134	171	67	86
75°	63	89	50	101	52	63
85°	24	35	25	32	24	26
90°	0	0	0	0	0	



TEST NUMBER: P292567

CATALOG NUMBER: 22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.9	1301.9	1301.9	1301.9	1301.9
2.5°	1301.3	1313.1	1328.4	1330.1	1331.3
5°	1293.6	1317.8	1289.5	1316.0	1330.1
7.5°	1276.0	1290.7	1311.3	1284.8	1292.5
10°	1267.2	1270.7	1270.7	1303.7	1297.2
12.5°	1247.2	1270.7	1276.6	1270.1	1284.2
15°	1237.1	1244.8	1246.6	1265.4	1266.6
17.5°	1226.0	1224.2	1220.1	1233.6	1257.7
20°	1197.1	1190.7	1203.0	1219.5	1228.9
22.5°	1154.7	1156.5	1171.2	1184.8	1195.4
25°	1105.3	1114.1	1136.5	1152.4	1160.0
27.5°	1068.2	1081.2	1096.5	1115.3	1130.6
30°	1038.8	1037.6	1048.2	1075.3	1093.0
32.5°	981.7	985.8	997.0	1029.4	1054.1
35°	924.0	924.6	935.8	978.2	1002.3
37.5°	857.5	852.8	859.3	905.2	921.1
40°	765.7	766.9	760.4	792.8	790.4
42.5°	658.6	668.0	634.5	676.8	673.9
45°	527.9	570.9	529.1	566.8	543.8
47.5°	416.7	480.3	445.5	473.2	430.2
50°	337.8	403.2	384.3	396.7	327.2
52.5°	277.2	330.2	336.1	339.0	255.4
55°	222.5	270.7	289.6	289.0	199.5
57.5°	164.2	220.1	241.9	250.7	151.3
60°	121.2	183.0	199.5	218.9	113.6
62.5°	97.7	160.7	164.8	191.9	86.5
65°	83.6	148.3	133.6	171.3	67.1
67.5°	74.2	138.3	108.9	153.0	57.1
70°	67.1	123.0	90.0	137.1	53.6
72.5°	65.3	104.8	69.4	122.4	53.0
75°	63.0	88.9	50.0	100.6	52.4
77.5°	54.1	75.9	35.9	77.7	48.9
80°	47.1	60.6	26.5	58.3	43.0
82.5°	36.5	45.9	23.5	44.1	34.7
85°	23.5	34.7	24.7	31.8	24.1
87.5°	11.2	19.4	17.7	17.1	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)