

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: P292566

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292566
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2474.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

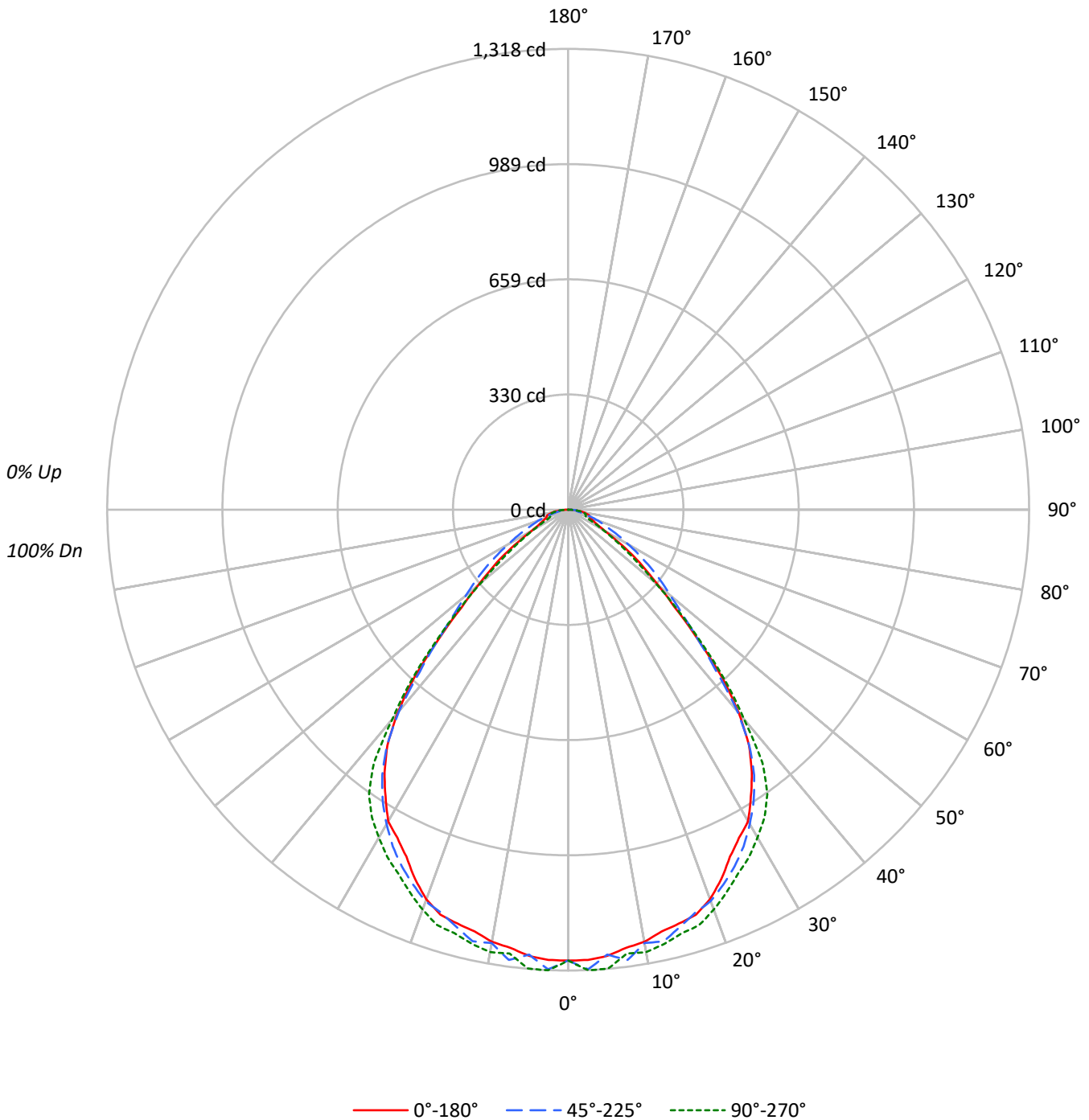
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3470	3470	3470
5°	3461	3450	3559
10°	3429	3439	3510
15°	3414	3439	3495
20°	3395	3412	3485
25°	3250	3342	3411
30°	3197	3226	3363
35°	3007	3045	3261
40°	2664	2646	2750
45°	1990	1994	2050
50°	1401	1593	1357
55°	1034	1346	927
60°	646	1063	605
65°	527	842	423
70°	523	702	417
75°	649	515	540
80°	722	406	660
85°	719	756	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	5.0
10°-20°	349.6	14.1
20°-30°	517.8	20.9
30°-40°	580.0	23.4
40°-50°	426.2	17.2
50°-60°	238.2	9.6
60°-70°	132.8	5.4
70°-80°	78.0	3.2
80°-90°	28.7	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°	990.2	40.0
0°-40°	1570.2	63.5
0°-60°	2234.5	90.3
0°-90°	2474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1281	1305	1277	1303	1317	121
15°	1225	1233	1235	1253	1254	346
25°	1095	1103	1126	1141	1149	507
35°	915	916	927	969	993	567
45°	523	565	524	561	539	409
55°	220	268	287	286	198	197
65°	83	147	132	170	66	86
75°	62	88	50	100	52	63
85°	23	34	24	32	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1288.8	1300.5	1315.6	1317.4	1318.5
5°	1281.2	1305.1	1277.1	1303.4	1317.4
7.5°	1263.7	1278.3	1298.7	1272.5	1280.1
10°	1255.0	1258.5	1258.5	1291.1	1284.7
12.5°	1235.2	1258.5	1264.3	1257.9	1271.9
15°	1225.3	1232.8	1234.6	1253.2	1254.4
17.5°	1214.2	1212.4	1208.4	1221.8	1245.7
20°	1185.6	1179.2	1191.5	1207.8	1217.1
22.5°	1143.7	1145.4	1160.0	1173.4	1183.9
25°	1094.7	1103.4	1125.6	1141.3	1148.9
27.5°	1058.0	1070.8	1085.9	1104.6	1119.8
30°	1028.8	1027.7	1038.1	1065.0	1082.4
32.5°	972.3	976.4	987.4	1019.5	1044.0
35°	915.2	915.7	926.8	968.8	992.7
37.5°	849.3	844.6	851.0	896.5	912.2
40°	758.4	759.5	753.1	785.2	782.8
42.5°	652.3	661.6	628.4	670.3	667.4
45°	522.9	565.4	524.0	561.3	538.6
47.5°	412.7	475.6	441.3	468.7	426.1
50°	334.6	399.3	380.6	392.9	324.1
52.5°	274.5	327.0	332.8	335.8	253.0
55°	220.3	268.1	286.8	286.2	197.6
57.5°	162.6	218.0	239.6	248.3	149.8
60°	120.1	181.3	197.6	216.8	112.5
62.5°	96.8	159.1	163.2	190.0	85.7
65°	82.8	146.9	132.3	169.6	66.5
67.5°	73.4	137.0	107.8	151.6	56.5
70°	66.5	121.8	89.2	135.8	53.0
72.5°	64.7	103.8	68.8	121.2	52.5
75°	62.4	88.0	49.5	99.7	51.9
77.5°	53.6	75.2	35.6	76.9	48.4
80°	46.6	60.0	26.2	57.7	42.6
82.5°	36.1	45.5	23.3	43.7	34.4
85°	23.3	34.4	24.5	31.5	23.9
87.5°	11.1	19.2	17.5	16.9	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)