

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: P292579

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292579
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-LD5-32-A19/156-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2912.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

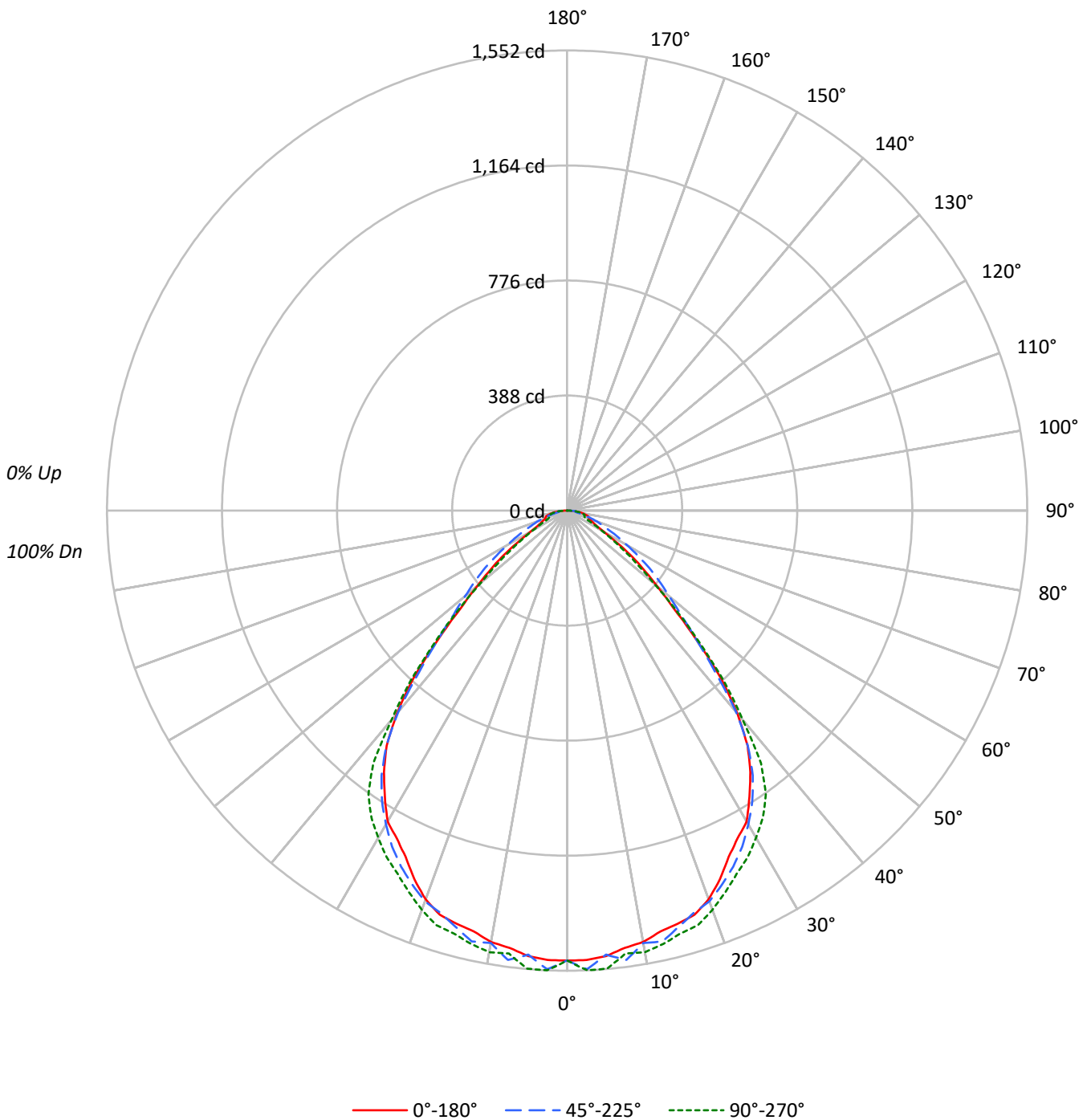
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4084	4084	4084
5°	4073	4061	4189
10°	4036	4048	4132
15°	4018	4048	4113
20°	3996	4016	4103
25°	3826	3934	4015
30°	3763	3797	3959
35°	3539	3584	3838
40°	3136	3114	3237
45°	2342	2347	2413
50°	1649	1876	1597
55°	1217	1584	1091
60°	760	1252	713
65°	620	991	498
70°	615	826	491
75°	763	606	635
80°	851	479	776
85°	846	889	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	5.0
10°-20°	411.5	14.1
20°-30°	609.5	20.9
30°-40°	682.7	23.4
40°-50°	501.6	17.2
50°-60°	280.4	9.6
60°-70°	156.3	5.4
70°-80°	91.8	3.2
80°-90°	33.7	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°	1165.5	40.0
0°-40°	1848.1	63.5
0°-60°	2630.2	90.3
0°-90°	2912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1508	1536	1503	1534	1551	143
15°	1442	1451	1453	1475	1476	407
25°	1288	1299	1325	1343	1352	597
35°	1077	1078	1091	1140	1168	667
45°	615	666	617	661	634	481
55°	259	316	338	337	233	231
65°	97	173	156	200	78	101
75°	73	104	58	117	61	74
85°	27	40	29	37	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.7	1517.7	1517.7	1517.7	1517.7
2.5°	1517.0	1530.7	1548.5	1550.6	1552.0
5°	1508.0	1536.2	1503.2	1534.1	1550.6
7.5°	1487.5	1504.6	1528.6	1497.8	1506.7
10°	1477.2	1481.3	1481.3	1519.7	1512.2
12.5°	1453.8	1481.3	1488.2	1480.6	1497.1
15°	1442.2	1451.1	1453.2	1475.1	1476.5
17.5°	1429.1	1427.1	1422.3	1438.1	1466.2
20°	1395.5	1388.0	1402.4	1421.6	1432.6
22.5°	1346.1	1348.2	1365.3	1381.1	1393.5
25°	1288.5	1298.8	1324.9	1343.4	1352.3
27.5°	1245.3	1260.4	1278.2	1300.2	1318.0
30°	1211.0	1209.6	1221.9	1253.5	1274.1
32.5°	1144.4	1149.2	1162.3	1200.0	1228.8
35°	1077.2	1077.9	1090.9	1140.3	1168.4
37.5°	999.6	994.2	1001.7	1055.2	1073.7
40°	892.6	894.0	886.4	924.2	921.4
42.5°	767.7	778.7	739.6	789.0	785.6
45°	615.4	665.5	616.8	660.7	634.0
47.5°	485.8	559.9	519.4	551.6	501.5
50°	393.8	470.0	448.0	462.4	381.5
52.5°	323.2	384.9	391.8	395.2	297.8
55°	259.3	315.6	337.6	336.9	232.6
57.5°	191.4	256.6	282.0	292.3	176.3
60°	141.3	213.4	232.6	255.2	132.4
62.5°	113.9	187.3	192.1	223.7	100.9
65°	97.4	172.9	155.7	199.7	78.2
67.5°	86.4	161.2	126.9	178.4	66.6
70°	78.2	143.4	105.0	159.9	62.4
72.5°	76.2	122.1	81.0	142.7	61.7
75°	73.4	103.6	58.3	117.3	61.1
77.5°	63.1	88.5	41.9	90.6	56.9
80°	54.9	70.7	30.9	67.9	50.1
82.5°	42.5	53.5	27.4	51.5	40.5
85°	27.4	40.5	28.8	37.0	28.1
87.5°	13.0	22.6	20.6	19.9	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)