

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: P292532

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292532
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

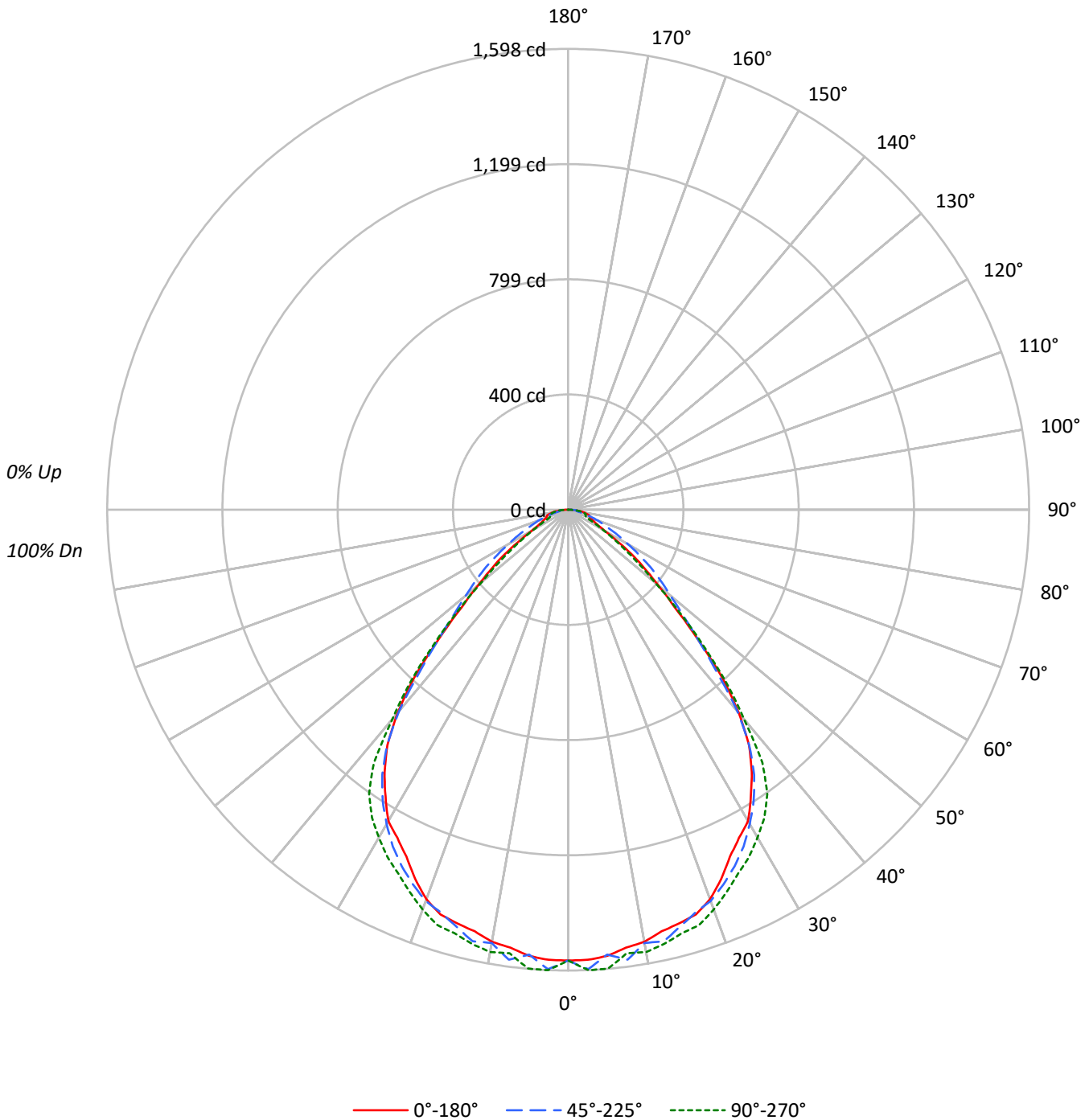
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4206	4206	4206
5°	4195	4182	4314
10°	4157	4168	4255
15°	4138	4169	4236
20°	4116	4136	4225
25°	3940	4051	4135
30°	3875	3911	4077
35°	3644	3691	3953
40°	3229	3207	3334
45°	2412	2417	2485
50°	1698	1932	1645
55°	1253	1631	1124
60°	784	1289	734
65°	639	1021	513
70°	634	851	506
75°	786	625	654
80°	876	493	800
85°	874	917	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	5.0
10°-20°	423.8	14.1
20°-30°	627.7	20.9
30°-40°	703.1	23.4
40°-50°	516.6	17.2
50°-60°	288.8	9.6
60°-70°	160.9	5.4
70°-80°	94.6	3.2
80°-90°	34.8	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°	1200.3	40.0
0°-40°	1903.4	63.5
0°-60°	2708.7	90.3
0°-90°	2999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1553	1582	1548	1580	1597	147
15°	1485	1494	1497	1519	1521	419
25°	1327	1338	1364	1384	1393	615
35°	1109	1110	1124	1174	1203	687
45°	634	685	635	680	653	495
55°	267	325	348	347	240	238
65°	100	178	160	206	81	104
75°	76	107	60	121	63	76
85°	28	42	30	38	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.0	1563.0	1563.0	1563.0	1563.0
2.5°	1562.3	1576.4	1594.8	1596.9	1598.3
5°	1553.1	1582.1	1548.2	1580.0	1596.9
7.5°	1531.9	1549.6	1574.3	1542.5	1551.7
10°	1521.3	1525.5	1525.5	1565.1	1557.3
12.5°	1497.3	1525.5	1532.6	1524.8	1541.8
15°	1485.3	1494.5	1496.6	1519.2	1520.6
17.5°	1471.8	1469.7	1464.8	1481.0	1510.0
20°	1437.2	1429.4	1444.3	1464.1	1475.4
22.5°	1386.3	1388.5	1406.1	1422.4	1435.1
25°	1327.0	1337.6	1364.4	1383.5	1392.7
27.5°	1282.5	1298.0	1316.4	1339.0	1357.4
30°	1247.1	1245.7	1258.5	1291.0	1312.2
32.5°	1178.6	1183.6	1197.0	1235.8	1265.5
35°	1109.4	1110.1	1123.5	1174.4	1203.3
37.5°	1029.5	1023.9	1031.6	1086.7	1105.8
40°	919.3	920.7	912.9	951.8	949.0
42.5°	790.7	802.0	761.7	812.6	809.1
45°	633.8	685.4	635.2	680.5	652.9
47.5°	500.3	576.6	534.9	568.1	516.5
50°	405.6	484.0	461.4	476.2	392.9
52.5°	332.8	396.4	403.5	407.0	306.7
55°	267.1	325.0	347.6	346.9	239.5
57.5°	197.1	264.3	290.4	301.0	181.6
60°	145.6	219.8	239.5	262.9	136.4
62.5°	117.3	192.9	197.8	230.4	103.9
65°	100.3	178.1	160.4	205.6	80.6
67.5°	89.0	166.1	130.7	183.7	68.5
70°	80.6	147.7	108.1	164.6	64.3
72.5°	78.4	125.8	83.4	147.0	63.6
75°	75.6	106.7	60.1	120.8	62.9
77.5°	65.0	91.2	43.1	93.3	58.6
80°	56.5	72.8	31.8	70.0	51.6
82.5°	43.8	55.1	28.3	53.0	41.7
85°	28.3	41.7	29.7	38.2	29.0
87.5°	13.4	23.3	21.2	20.5	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)