

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: P292582

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292582
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3168.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

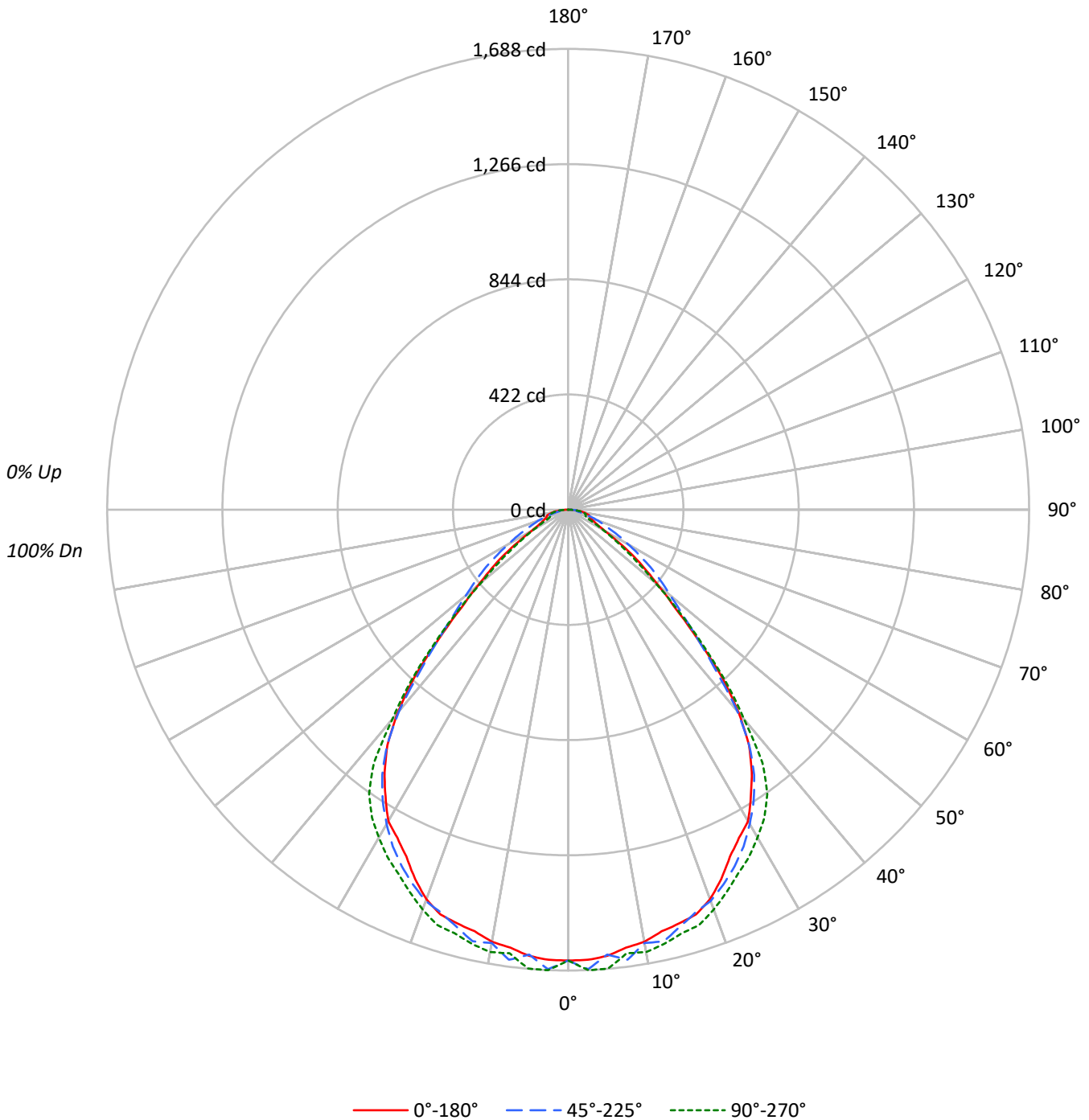
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4443	4443	4443
5°	4432	4418	4557
10°	4391	4403	4495
15°	4371	4404	4475
20°	4348	4369	4463
25°	4162	4279	4368
30°	4094	4131	4307
35°	3850	3899	4176
40°	3411	3388	3521
45°	2548	2554	2625
50°	1793	2040	1737
55°	1323	1723	1187
60°	828	1362	776
65°	675	1079	542
70°	670	899	534
75°	831	659	690
80°	925	521	845
85°	923	966	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	5.0
10°-20°	447.7	14.1
20°-30°	663.1	20.9
30°-40°	742.7	23.4
40°-50°	545.7	17.2
50°-60°	305.0	9.6
60°-70°	170.0	5.4
70°-80°	99.9	3.2
80°-90°	36.7	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°	1267.9	40.0
0°-40°	2010.6	63.5
0°-60°	2861.4	90.3
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1641	1671	1635	1669	1687	155
15°	1569	1579	1581	1605	1606	443
25°	1402	1413	1441	1462	1471	650
35°	1172	1173	1187	1240	1271	726
45°	670	724	671	719	690	523
55°	282	343	367	366	253	252
65°	106	188	169	217	85	110
75°	80	113	63	128	66	80
85°	30	44	31	40	31	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.1	1651.1	1651.1	1651.1	1651.1
2.5°	1650.3	1665.3	1684.7	1686.9	1688.4
5°	1640.6	1671.2	1635.4	1669.0	1686.9
7.5°	1618.2	1636.9	1663.0	1629.4	1639.1
10°	1607.0	1611.5	1611.5	1653.3	1645.1
12.5°	1581.7	1611.5	1619.0	1610.8	1628.7
15°	1569.0	1578.7	1580.9	1604.8	1606.3
17.5°	1554.8	1552.5	1547.3	1564.5	1595.1
20°	1518.2	1510.0	1525.7	1546.6	1558.5
22.5°	1464.5	1466.7	1485.4	1502.5	1516.0
25°	1401.8	1413.0	1441.3	1461.5	1471.2
27.5°	1354.7	1371.2	1390.6	1414.5	1433.9
30°	1317.4	1315.9	1329.4	1363.7	1386.1
32.5°	1245.0	1250.2	1264.4	1305.5	1336.8
35°	1171.9	1172.6	1186.8	1240.5	1271.1
37.5°	1087.5	1081.6	1089.8	1148.0	1168.1
40°	971.1	972.6	964.4	1005.4	1002.4
42.5°	835.2	847.2	804.6	858.4	854.6
45°	669.5	724.0	671.0	718.8	689.7
47.5°	528.5	609.1	565.0	600.1	545.6
50°	428.4	511.3	487.4	503.1	415.0
52.5°	351.6	418.7	426.2	429.9	323.9
55°	282.1	343.4	367.2	366.5	253.0
57.5°	208.3	279.2	306.8	318.0	191.8
60°	153.8	232.1	253.0	277.7	144.1
62.5°	123.9	203.8	209.0	243.3	109.7
65°	106.0	188.1	169.4	217.2	85.1
67.5°	94.0	175.4	138.1	194.1	72.4
70°	85.1	156.0	114.2	173.9	67.9
72.5°	82.9	132.9	88.1	155.3	67.2
75°	79.9	112.7	63.4	127.6	66.4
77.5°	68.7	96.3	45.5	98.5	62.0
80°	59.7	76.9	33.6	73.9	54.5
82.5°	46.3	58.2	29.9	56.0	44.0
85°	29.9	44.0	31.3	40.3	30.6
87.5°	14.2	24.6	22.4	21.6	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)