

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: P292683

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292683
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-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

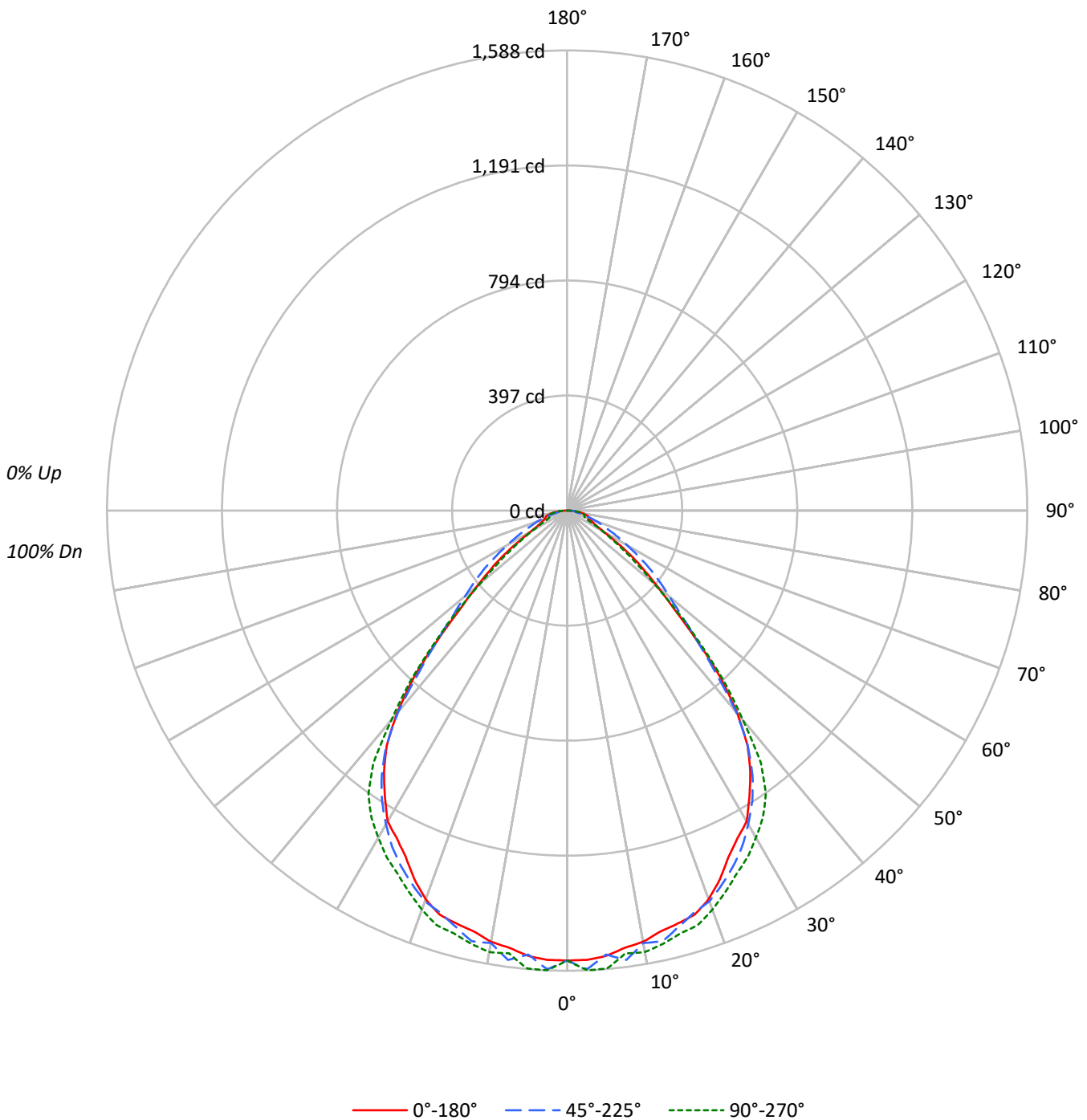
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	4178	4178	4178
5°	4167	4154	4285
10°	4129	4141	4227
15°	4110	4142	4208
20°	4088	4109	4197
25°	3914	4024	4108
30°	3849	3884	4050
35°	3620	3666	3927
40°	3208	3185	3311
45°	2396	2401	2468
50°	1687	1919	1634
55°	1245	1620	1116
60°	778	1280	729
65°	635	1014	509
70°	629	845	503
75°	781	621	650
80°	871	490	793
85°	868	911	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	5.0
10°-20°	421.0	14.1
20°-30°	623.5	20.9
30°-40°	698.4	23.4
40°-50°	513.2	17.2
50°-60°	286.8	9.6
60°-70°	159.9	5.4
70°-80°	93.9	3.2
80°-90°	34.5	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°	1192.3	40.0
0°-40°	1890.7	63.5
0°-60°	2690.7	90.3
0°-90°	2979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1543	1572	1538	1569	1586	146
15°	1475	1484	1487	1509	1510	417
25°	1318	1329	1355	1374	1383	611
35°	1102	1103	1116	1166	1195	683
45°	630	681	631	676	648	492
55°	265	323	345	345	238	237
65°	100	177	159	204	80	103
75°	75	106	60	120	62	75
85°	28	41	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°	1552.6	1552.6	1552.6	1552.6	1552.6
2.5°	1551.9	1565.9	1584.2	1586.3	1587.7
5°	1542.7	1571.5	1537.8	1569.4	1586.3
7.5°	1521.7	1539.2	1563.8	1532.2	1541.3
10°	1511.2	1515.4	1515.4	1554.7	1547.0
12.5°	1487.3	1515.4	1522.4	1514.7	1531.5
15°	1475.4	1484.5	1486.6	1509.1	1510.5
17.5°	1462.0	1459.9	1455.0	1471.2	1499.9
20°	1427.6	1419.9	1434.7	1454.3	1465.5
22.5°	1377.1	1379.2	1396.8	1412.9	1425.5
25°	1318.1	1328.7	1355.3	1374.3	1383.4
27.5°	1273.9	1289.4	1307.6	1330.1	1348.3
30°	1238.8	1237.4	1250.1	1282.3	1303.4
32.5°	1170.7	1175.7	1189.0	1227.6	1257.1
35°	1102.0	1102.7	1116.0	1166.5	1195.3
37.5°	1022.6	1017.0	1024.8	1079.5	1098.5
40°	913.2	914.6	906.8	945.4	942.6
42.5°	785.4	796.6	756.6	807.2	803.7
45°	629.6	680.8	631.0	675.9	648.5
47.5°	496.9	572.7	531.3	564.3	513.1
50°	402.9	480.8	458.3	473.1	390.2
52.5°	330.6	393.8	400.8	404.3	304.6
55°	265.3	322.9	345.3	344.6	237.9
57.5°	195.8	262.5	288.5	299.0	180.4
60°	144.6	218.3	237.9	261.1	135.5
62.5°	116.5	191.6	196.5	228.8	103.2
65°	99.7	176.9	159.3	204.2	80.0
67.5°	88.4	164.9	129.8	182.5	68.1
70°	80.0	146.7	107.4	163.5	63.9
72.5°	77.9	124.9	82.8	146.0	63.2
75°	75.1	106.0	59.7	120.0	62.5
77.5°	64.6	90.5	42.8	92.6	58.3
80°	56.2	72.3	31.6	69.5	51.2
82.5°	43.5	54.7	28.1	52.6	41.4
85°	28.1	41.4	29.5	37.9	28.8
87.5°	13.3	23.2	21.1	20.4	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)