

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: P292681

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292681
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

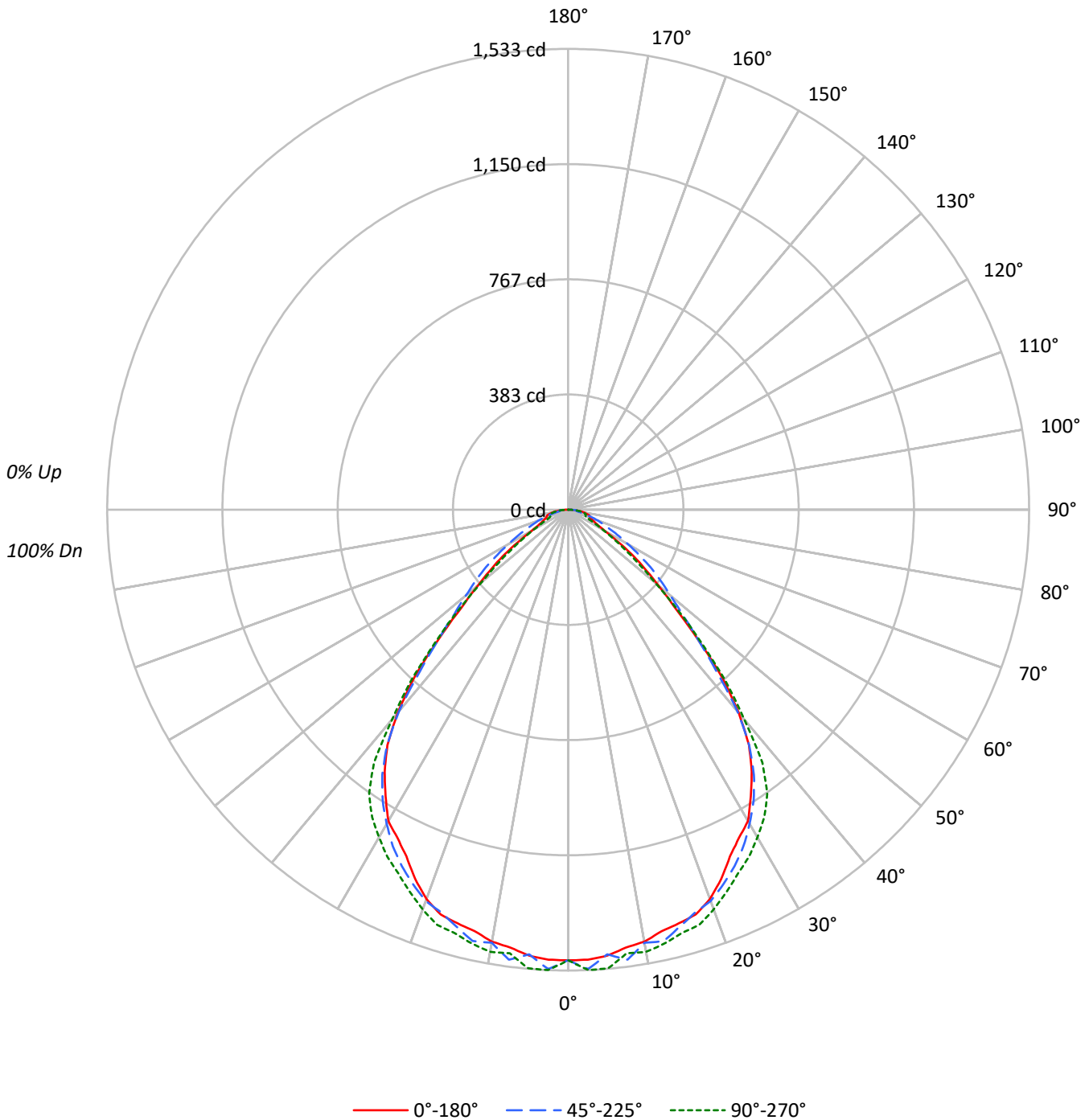
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4034	4034	4034
5°	4023	4011	4137
10°	3986	3998	4081
15°	3968	3998	4062
20°	3947	3966	4052
25°	3779	3885	3966
30°	3716	3750	3910
35°	3495	3539	3791
40°	3097	3075	3197
45°	2313	2318	2383
50°	1629	1852	1577
55°	1202	1564	1078
60°	751	1236	704
65°	613	979	492
70°	607	816	485
75°	754	599	627
80°	840	473	767
85°	837	880	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	5.0
10°-20°	406.4	14.1
20°-30°	601.9	20.9
30°-40°	674.3	23.4
40°-50°	495.4	17.2
50°-60°	276.9	9.6
60°-70°	154.3	5.4
70°-80°	90.7	3.2
80°-90°	33.3	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°	1151.0	40.0
0°-40°	1825.3	63.5
0°-60°	2597.7	90.3
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1489	1517	1485	1515	1531	141
15°	1424	1433	1435	1457	1458	402
25°	1273	1283	1308	1327	1336	590
35°	1064	1064	1077	1126	1154	659
45°	608	657	609	652	626	475
55°	256	312	333	333	230	229
65°	96	171	154	197	77	100
75°	72	102	58	116	60	73
85°	27	40	28	37	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.9	1498.9	1498.9	1498.9	1498.9
2.5°	1498.2	1511.8	1529.4	1531.4	1532.8
5°	1489.4	1517.2	1484.7	1515.2	1531.4
7.5°	1469.1	1486.0	1509.7	1479.2	1488.0
10°	1458.9	1463.0	1463.0	1500.9	1493.5
12.5°	1435.9	1463.0	1469.8	1462.3	1478.6
15°	1424.4	1433.2	1435.2	1456.9	1458.2
17.5°	1411.5	1409.4	1404.7	1420.3	1448.1
20°	1378.3	1370.8	1385.1	1404.0	1414.9
22.5°	1329.5	1331.5	1348.5	1364.0	1376.2
25°	1272.6	1282.7	1308.5	1326.8	1335.6
27.5°	1229.9	1244.8	1262.4	1284.1	1301.7
30°	1196.0	1194.6	1206.8	1238.0	1258.3
32.5°	1130.3	1135.0	1147.9	1185.2	1213.6
35°	1063.9	1064.5	1077.4	1126.2	1154.0
37.5°	987.3	981.9	989.3	1042.2	1060.5
40°	881.6	882.9	875.5	912.8	910.0
42.5°	758.3	769.1	730.5	779.3	775.9
45°	607.8	657.3	609.2	652.5	626.1
47.5°	479.8	552.9	513.0	544.8	495.3
50°	389.0	464.2	442.5	456.7	376.8
52.5°	319.2	380.1	386.9	390.3	294.1
55°	256.1	311.7	333.4	332.7	229.7
57.5°	189.1	253.4	278.5	288.7	174.1
60°	139.6	210.7	229.7	252.1	130.8
62.5°	112.5	185.0	189.7	220.9	99.6
65°	96.2	170.8	153.8	197.2	77.2
67.5°	85.4	159.2	125.4	176.2	65.7
70°	77.2	141.6	103.7	157.9	61.7
72.5°	75.2	120.6	80.0	140.9	61.0
75°	72.5	102.3	57.6	115.9	60.3
77.5°	62.3	87.4	41.3	89.4	56.2
80°	54.2	69.8	30.5	67.1	49.5
82.5°	42.0	52.9	27.1	50.8	40.0
85°	27.1	40.0	28.5	36.6	27.8
87.5°	12.9	22.4	20.3	19.7	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)