

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: P292687

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292687
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-LD5-36-A19/156-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2903.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

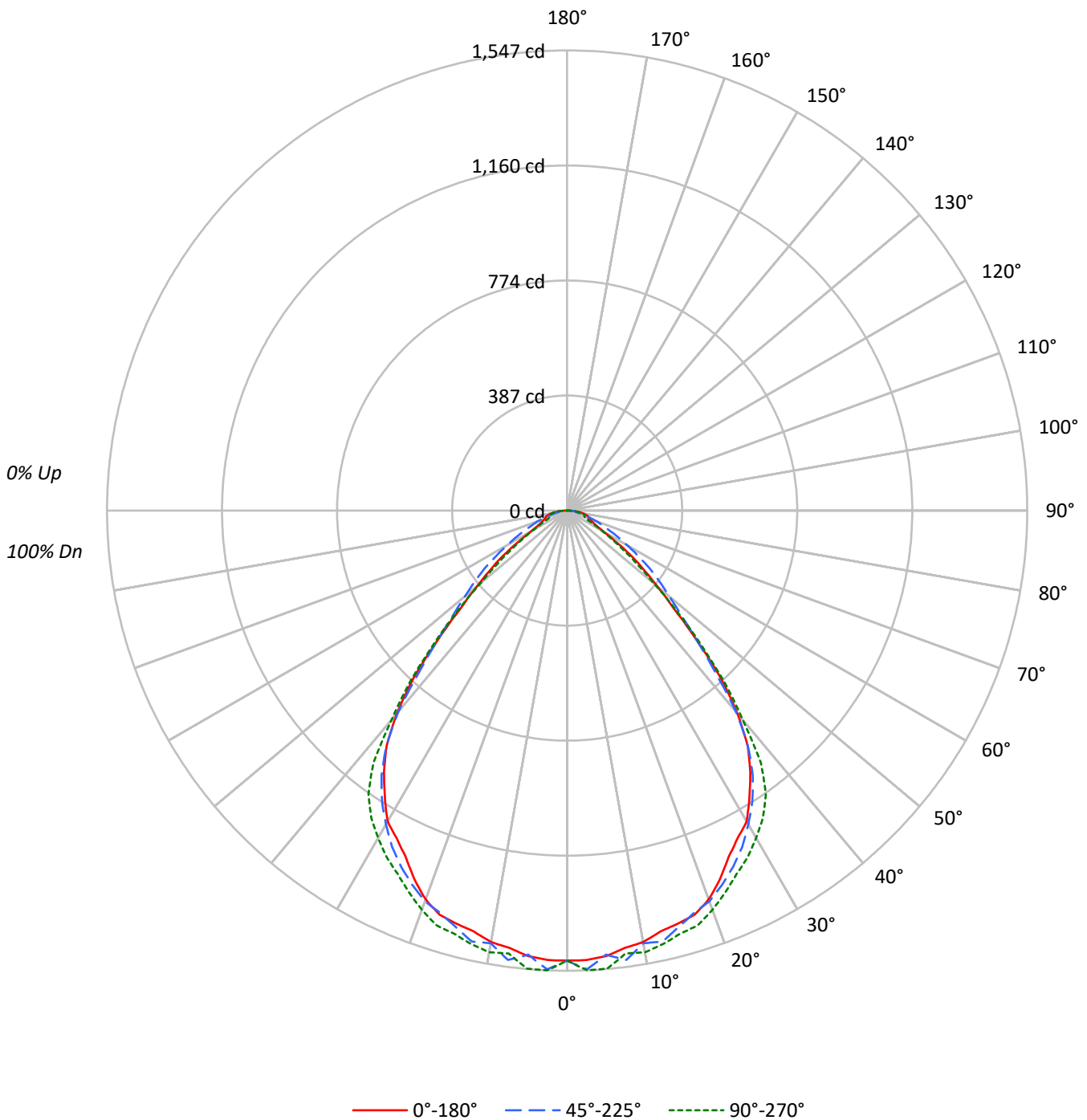
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4071	4071	4071
5°	4061	4048	4176
10°	4024	4035	4119
15°	4005	4036	4101
20°	3984	4004	4090
25°	3814	3922	4003
30°	3751	3785	3947
35°	3528	3573	3826
40°	3126	3104	3227
45°	2335	2340	2405
50°	1644	1870	1592
55°	1213	1579	1088
60°	758	1248	710
65°	618	989	497
70°	614	823	489
75°	761	604	633
80°	848	477	773
85°	846	886	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	5.0
10°-20°	410.2	14.1
20°-30°	607.6	20.9
30°-40°	680.6	23.4
40°-50°	500.1	17.2
50°-60°	279.5	9.6
60°-70°	155.8	5.4
70°-80°	91.5	3.2
80°-90°	33.6	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°	1161.8	40.0
0°-40°	1842.4	63.5
0°-60°	2622.0	90.3
0°-90°	2903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1503	1531	1499	1529	1546	142
15°	1438	1447	1449	1471	1472	406
25°	1284	1295	1321	1339	1348	595
35°	1074	1074	1088	1137	1165	665
45°	614	664	615	659	632	479
55°	258	315	336	336	232	231
65°	97	172	155	199	78	100
75°	73	103	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°	1513.0	1513.0	1513.0	1513.0	1513.0
2.5°	1512.3	1526.0	1543.7	1545.8	1547.2
5°	1503.4	1531.4	1498.6	1529.4	1545.8
7.5°	1482.9	1500.0	1523.9	1493.1	1502.0
10°	1472.6	1476.7	1476.7	1515.0	1507.5
12.5°	1449.4	1476.7	1483.6	1476.0	1492.4
15°	1437.7	1446.6	1448.7	1470.6	1471.9
17.5°	1424.7	1422.7	1417.9	1433.6	1461.7
20°	1391.2	1383.7	1398.1	1417.2	1428.1
22.5°	1342.0	1344.0	1361.1	1376.9	1389.2
25°	1284.5	1294.8	1320.8	1339.2	1348.1
27.5°	1241.4	1256.5	1274.3	1296.1	1313.9
30°	1207.2	1205.9	1218.2	1249.6	1270.2
32.5°	1140.9	1145.7	1158.7	1196.3	1225.0
35°	1073.8	1074.5	1087.5	1136.8	1164.8
37.5°	996.6	991.1	998.6	1052.0	1070.4
40°	889.9	891.2	883.7	921.3	918.6
42.5°	765.4	776.3	737.3	786.6	783.2
45°	613.5	663.5	614.9	658.7	632.0
47.5°	484.3	558.1	517.8	549.9	500.0
50°	392.6	468.5	446.6	461.0	380.3
52.5°	322.2	383.7	390.6	394.0	296.8
55°	258.5	314.6	336.5	335.8	231.9
57.5°	190.8	255.8	281.1	291.4	175.8
60°	140.9	212.7	231.9	254.4	132.0
62.5°	113.5	186.7	191.5	223.0	100.5
65°	97.1	172.4	155.3	199.0	78.0
67.5°	86.2	160.7	126.5	177.8	66.3
70°	78.0	143.0	104.6	159.4	62.2
72.5°	75.9	121.7	80.7	142.3	61.6
75°	73.2	103.3	58.1	117.0	60.9
77.5°	62.9	88.2	41.7	90.3	56.8
80°	54.7	70.4	30.8	67.7	49.9
82.5°	42.4	53.4	27.4	51.3	40.4
85°	27.4	40.4	28.7	36.9	28.0
87.5°	13.0	22.6	20.5	19.8	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)