

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: P292196

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3310.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

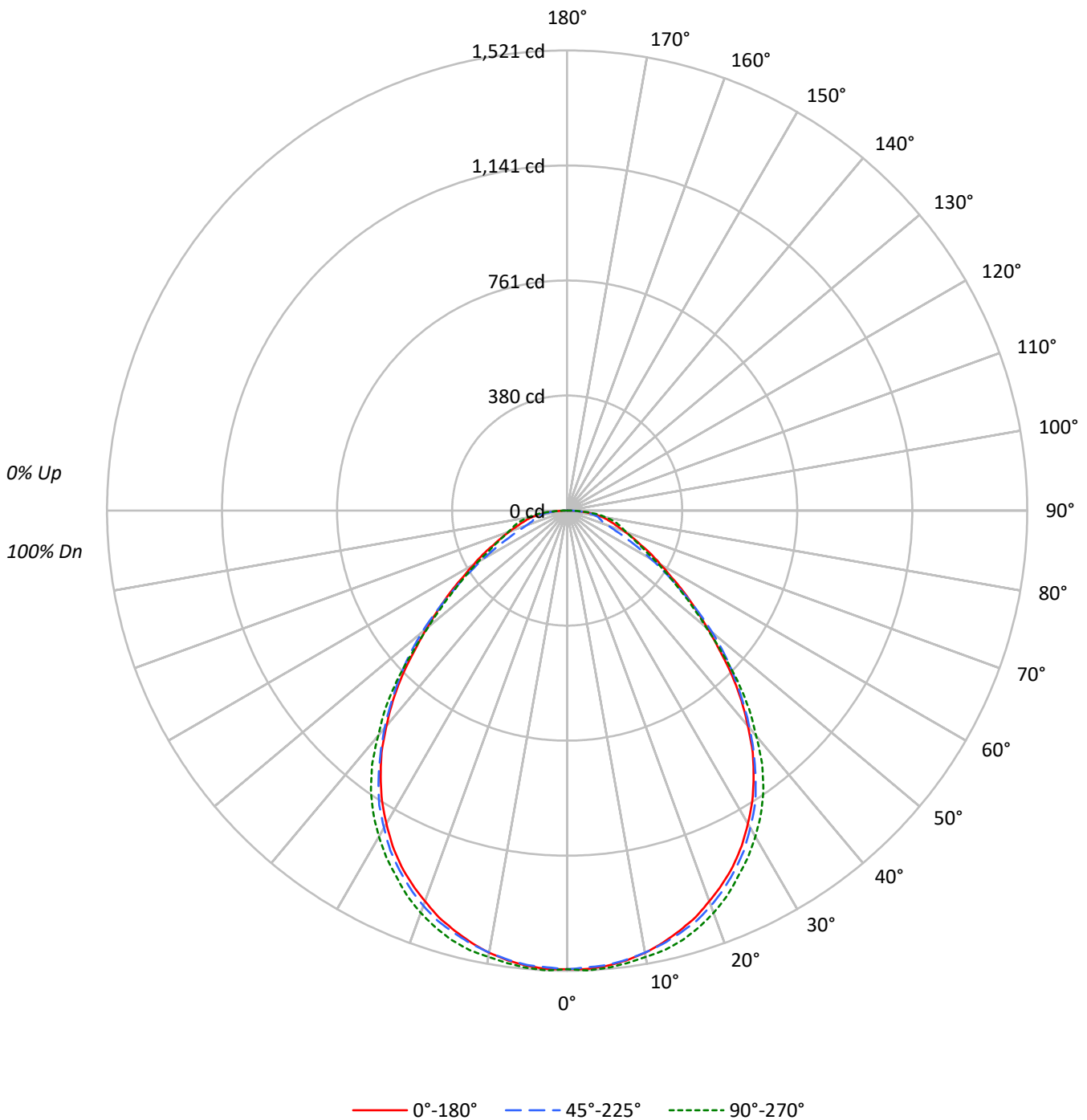
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4079	4079	4079
5°	4080	4074	4099
10°	4056	4054	4094
15°	4004	4026	4096
20°	3935	3981	4052
25°	3851	3895	3966
30°	3712	3762	3865
35°	3530	3570	3714
40°	3263	3298	3415
45°	2931	2984	3031
50°	2534	2625	2509
55°	2212	2154	2125
60°	1915	1724	1841
65°	1712	1354	1653
70°	1588	1121	1630
75°	1586	1185	1810
80°	1754	1492	2041
85°	1831	1618	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	4.3
10°-20°	408.6	12.3
20°-30°	604.2	18.3
30°-40°	681.9	20.6
40°-50°	601.1	18.2
50°-60°	412.3	12.5
60°-70°	243.3	7.4
70°-80°	151.8	4.6
80°-90°	63.3	1.9
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°	1156.2	34.9
0°-40°	1838.1	55.5
0°-60°	2851.5	86.1
0°-90°	3310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1510	1507	1508	1514	1517	143
15°	1437	1439	1445	1463	1470	405
25°	1297	1302	1312	1329	1336	596
35°	1074	1084	1087	1113	1131	670
45°	770	774	784	789	796	592
55°	471	460	459	444	453	423
65°	269	236	213	246	260	271
75°	152	137	114	159	174	164
85°	59	56	52	69	75	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.9	1515.9	1515.9	1515.9	1515.9
2.5°	1516.6	1512.8	1511.2	1517.4	1521.3
5°	1510.5	1507.4	1508.2	1513.5	1517.4
7.5°	1499.7	1497.4	1497.4	1505.1	1508.9
10°	1484.3	1483.5	1483.5	1492.8	1498.1
12.5°	1462.7	1463.5	1466.6	1478.9	1488.1
15°	1437.3	1438.8	1445.0	1462.7	1470.4
17.5°	1409.6	1409.6	1421.9	1435.8	1445.0
20°	1374.1	1376.4	1390.3	1405.7	1415.0
22.5°	1337.9	1341.8	1353.3	1371.1	1379.5
25°	1297.1	1301.7	1311.7	1328.7	1335.6
27.5°	1249.4	1255.5	1266.3	1278.6	1293.3
30°	1194.7	1203.9	1210.8	1227.8	1244.0
32.5°	1139.2	1147.7	1155.4	1173.1	1191.6
35°	1074.5	1083.7	1086.8	1113.0	1130.7
37.5°	1008.3	1012.1	1013.7	1039.8	1059.1
40°	928.9	936.6	938.9	959.7	972.1
42.5°	852.7	855.8	860.4	875.8	890.4
45°	770.3	774.1	784.1	788.7	796.4
47.5°	684.0	695.5	707.1	692.5	693.2
50°	605.4	614.7	627.0	599.3	599.3
52.5°	535.3	539.9	540.7	517.6	522.2
55°	471.4	459.8	459.1	443.7	452.9
57.5°	407.5	392.1	386.7	382.0	392.8
60°	355.9	328.1	320.4	327.4	342.0
62.5°	313.5	278.1	263.4	281.1	294.2
65°	268.8	236.5	212.6	245.7	259.6
67.5°	234.2	203.3	172.5	219.5	229.5
70°	201.8	177.9	142.5	199.5	207.2
72.5°	175.6	157.1	123.2	180.2	189.5
75°	152.5	137.1	114.0	159.4	174.1
77.5°	134.0	117.1	106.3	137.9	155.6
80°	113.2	96.3	96.3	115.5	131.7
82.5°	89.3	75.5	77.8	94.0	105.5
85°	59.3	55.5	52.4	68.6	74.7
87.5°	30.0	30.8	27.7	35.4	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)