

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: P292302

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292302
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3423.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

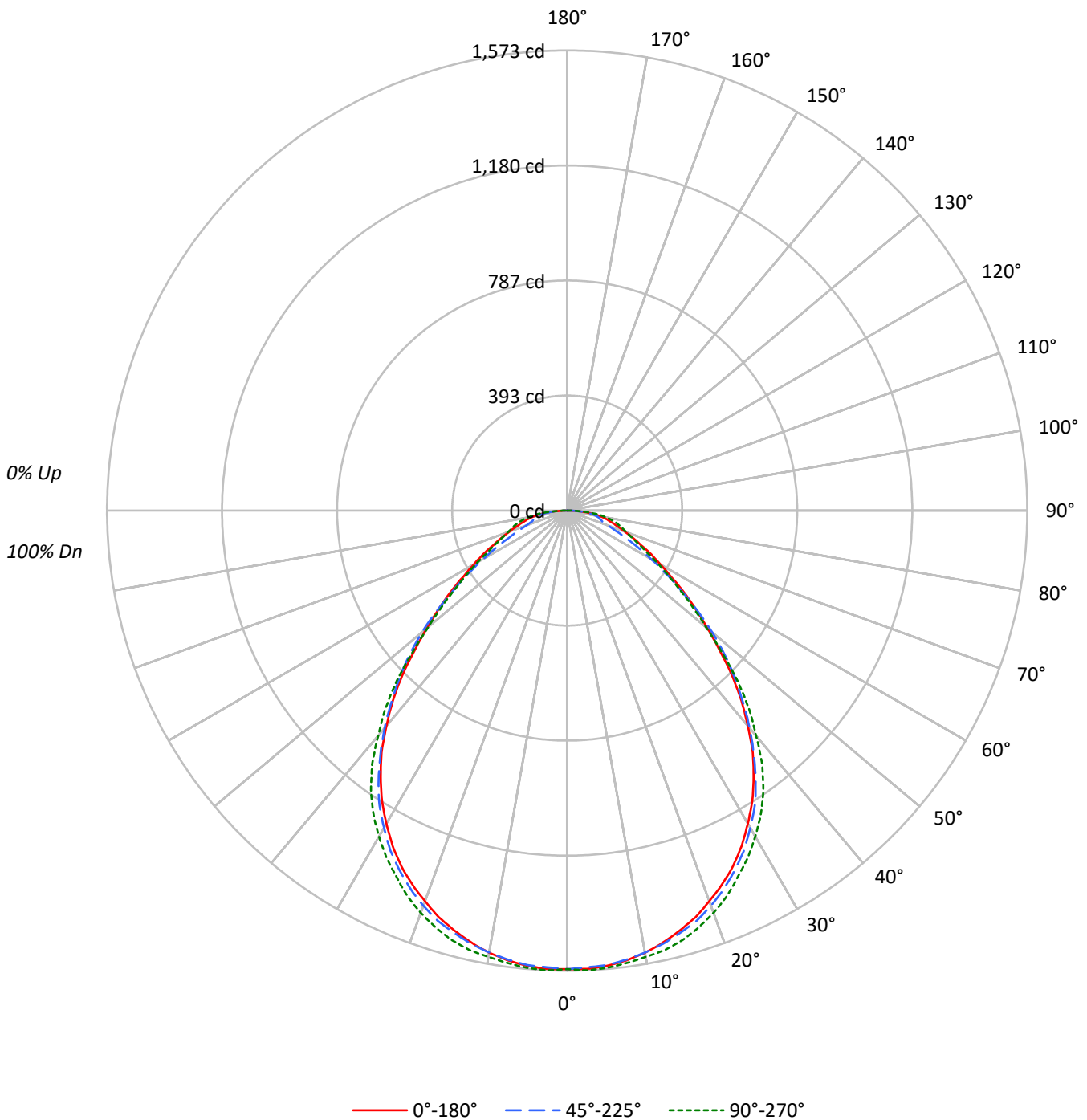
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4218	4218	4218
5°	4219	4213	4239
10°	4194	4192	4233
15°	4141	4163	4236
20°	4069	4117	4190
25°	3983	4028	4101
30°	3839	3891	3997
35°	3650	3692	3841
40°	3374	3411	3531
45°	3031	3086	3134
50°	2621	2714	2594
55°	2287	2227	2198
60°	1981	1784	1904
65°	1770	1400	1709
70°	1642	1160	1686
75°	1640	1226	1871
80°	1815	1543	2111
85°	1893	1673	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	4.3
10°-20°	422.5	12.3
20°-30°	624.9	18.3
30°-40°	705.1	20.6
40°-50°	621.6	18.2
50°-60°	426.4	12.5
60°-70°	251.6	7.4
70°-80°	157.0	4.6
80°-90°	65.5	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°	1195.7	34.9
0°-40°	1900.9	55.5
0°-60°	2948.9	86.1
0°-90°	3423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1562	1559	1560	1565	1569	148
15°	1486	1488	1494	1513	1521	419
25°	1341	1346	1356	1374	1381	616
35°	1111	1121	1124	1151	1169	692
45°	796	800	811	816	824	612
55°	488	476	475	459	468	437
65°	278	244	220	254	268	280
75°	158	142	118	165	180	169
85°	61	57	54	71	77	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.6	1567.6	1567.6	1567.6	1567.6
2.5°	1568.4	1564.4	1562.8	1569.2	1573.2
5°	1562.0	1558.8	1559.6	1565.2	1569.2
7.5°	1550.9	1548.5	1548.5	1556.5	1560.4
10°	1535.0	1534.2	1534.2	1543.7	1549.3
12.5°	1512.6	1513.4	1516.6	1529.4	1538.9
15°	1486.4	1488.0	1494.3	1512.6	1520.6
17.5°	1457.7	1457.7	1470.4	1484.8	1494.3
20°	1421.0	1423.4	1437.8	1453.7	1463.3
22.5°	1383.6	1387.6	1399.5	1417.9	1426.6
25°	1341.4	1346.2	1356.5	1374.0	1381.2
27.5°	1292.0	1298.4	1309.5	1322.3	1337.4
30°	1235.4	1245.0	1252.2	1269.7	1286.4
32.5°	1178.1	1186.9	1194.8	1213.1	1232.3
35°	1111.2	1120.7	1123.9	1151.0	1169.3
37.5°	1042.7	1046.7	1048.3	1075.3	1095.3
40°	960.6	968.6	971.0	992.5	1005.2
42.5°	881.8	885.0	889.7	905.7	920.8
45°	796.5	800.5	810.9	815.7	823.6
47.5°	707.3	719.3	731.2	716.1	716.9
50°	626.1	635.6	648.4	619.7	619.7
52.5°	553.6	558.4	559.2	535.3	540.1
55°	487.5	475.5	474.7	458.8	468.4
57.5°	421.4	405.4	399.9	395.1	406.2
60°	368.0	339.3	331.4	338.5	353.7
62.5°	324.2	287.6	272.4	290.7	304.3
65°	278.0	244.5	219.8	254.1	268.4
67.5°	242.2	210.3	178.4	227.0	237.4
70°	208.7	184.0	147.4	206.3	214.3
72.5°	181.6	162.5	127.4	186.4	196.0
75°	157.7	141.8	117.9	164.9	180.0
77.5°	138.6	121.1	109.9	142.6	160.9
80°	117.1	99.6	99.6	119.5	136.2
82.5°	92.4	78.1	80.5	97.2	109.1
85°	61.3	57.4	54.2	70.9	77.3
87.5°	31.1	31.9	28.7	36.6	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)