

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: P291906

Luminaire Tested: **22GR-LD5-36-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F1-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

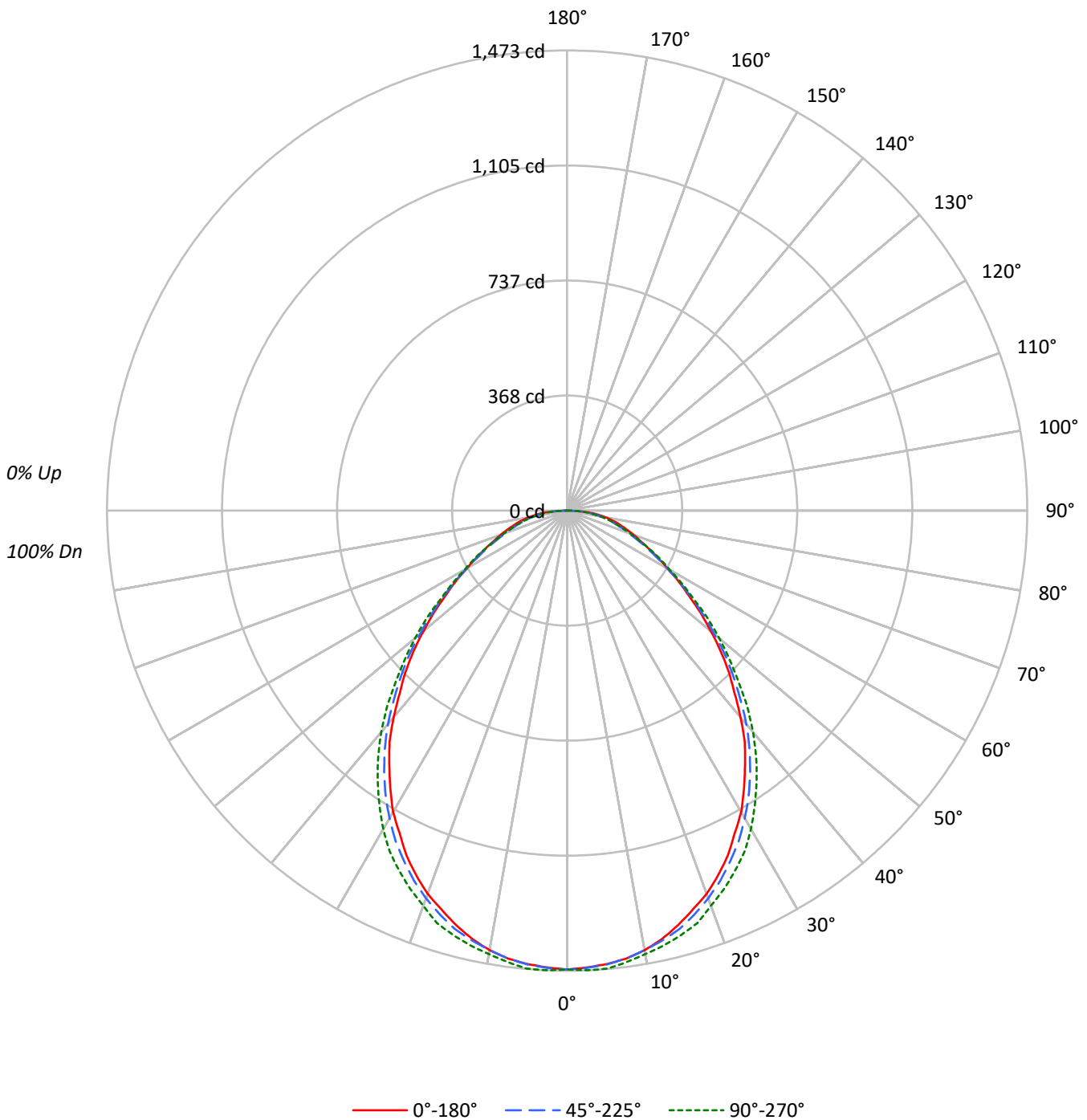
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3953	3953	3953
5°	3935	3940	3976
10°	3905	3903	3940
15°	3826	3864	3920
20°	3739	3782	3855
25°	3615	3673	3776
30°	3462	3533	3657
35°	3260	3354	3473
40°	3034	3137	3250
45°	2785	2865	2954
50°	2512	2575	2657
55°	2229	2282	2321
60°	1998	2002	2042
65°	1841	1778	1841
70°	1777	1647	1694
75°	1808	1613	1644
80°	1948	1692	1692
85°	2161	1791	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	4.2
10°-20°	390.8	11.9
20°-30°	570.4	17.4
30°-40°	638.6	19.5
40°-50°	581.2	17.7
50°-60°	437.5	13.3
60°-70°	285.5	8.7
70°-80°	171.2	5.2
80°-90°	64.2	2.0
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°	1099.8	33.6
0°-40°	1738.4	53.0
0°-60°	2757.1	84.1
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1457	1455	1458	1464	1472	138
15°	1373	1375	1387	1398	1407	387
25°	1218	1221	1237	1260	1272	559
35°	992	1001	1021	1045	1057	620
45°	732	739	753	769	776	563
55°	475	482	486	493	495	429
65°	289	286	279	284	289	289
75°	174	168	155	156	158	185
85°	70	68	58	55	57	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.9	1468.9	1468.9	1468.9	1468.9
2.5°	1463.7	1462.9	1465.2	1468.9	1472.7
5°	1456.9	1454.6	1458.4	1463.7	1472.0
7.5°	1446.4	1446.4	1446.4	1456.1	1457.6
10°	1429.0	1430.5	1428.3	1438.1	1441.8
12.5°	1404.2	1404.9	1409.5	1419.2	1426.0
15°	1373.3	1374.8	1386.9	1398.2	1407.2
17.5°	1338.7	1344.0	1355.3	1373.3	1384.6
20°	1305.6	1311.6	1320.6	1340.2	1346.2
22.5°	1263.4	1270.2	1281.5	1298.8	1311.6
25°	1217.5	1221.2	1237.0	1259.6	1271.7
27.5°	1162.5	1170.8	1190.4	1213.7	1230.3
30°	1114.3	1118.8	1136.9	1164.0	1176.8
32.5°	1053.3	1066.9	1081.9	1106.0	1118.1
35°	992.3	1001.4	1021.0	1045.0	1057.1
37.5°	933.6	938.9	958.5	978.8	993.9
40°	863.6	873.4	893.0	914.8	925.3
42.5°	793.6	807.9	820.7	842.5	853.8
45°	731.8	739.4	752.9	768.7	776.3
47.5°	667.1	670.8	686.7	696.4	704.7
50°	600.1	604.6	615.1	624.9	634.7
52.5°	538.3	542.1	548.9	557.9	567.7
55°	475.1	481.9	486.4	493.2	494.7
57.5°	423.9	423.1	426.2	431.4	436.7
60°	371.2	372.7	371.9	377.2	379.5
62.5°	327.5	326.8	322.2	329.8	335.8
65°	289.1	286.1	279.3	283.8	289.1
67.5°	253.7	252.2	240.9	244.7	249.2
70°	225.9	220.6	209.3	211.6	215.3
72.5°	198.8	192.7	181.5	182.2	184.5
75°	173.9	167.9	155.1	155.9	158.1
77.5°	150.6	143.1	131.8	130.3	131.8
80°	125.7	119.0	109.2	104.7	109.2
82.5°	100.1	96.4	85.1	80.6	82.1
85°	70.0	67.8	58.0	55.0	57.2
87.5°	32.4	34.6	29.4	27.1	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)