

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: P291908

Luminaire Tested: **22GR-LD5-36-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291908
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396.0 lumens
Efficiency: N/A
Efficacy: 117.8 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

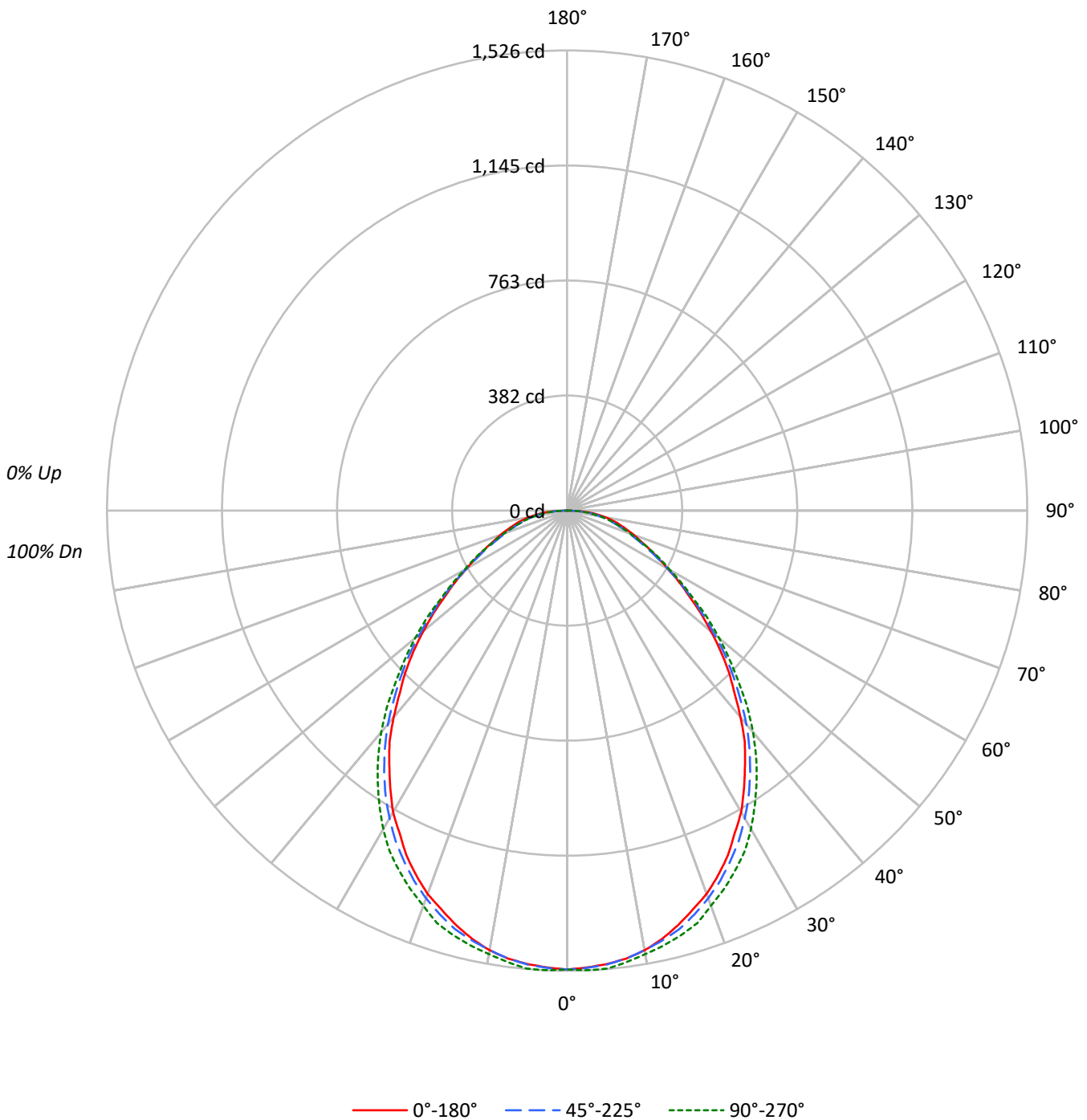
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4095	4095	4095
5°	4077	4081	4119
10°	4045	4043	4082
15°	3964	4003	4062
20°	3873	3918	3994
25°	3745	3805	3912
30°	3587	3660	3788
35°	3377	3475	3597
40°	3143	3250	3367
45°	2885	2968	3060
50°	2603	2668	2753
55°	2309	2364	2404
60°	2070	2074	2116
65°	1907	1843	1907
70°	1841	1706	1755
75°	1874	1671	1703
80°	2019	1753	1753
85°	2238	1856	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.2
10°-20°	404.9	11.9
20°-30°	590.9	17.4
30°-40°	661.6	19.5
40°-50°	602.1	17.7
50°-60°	453.2	13.3
60°-70°	295.7	8.7
70°-80°	177.4	5.2
80°-90°	66.5	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°	1139.4	33.6
0°-40°	1801.0	53.0
0°-60°	2856.4	84.1
0°-90°	3396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1509	1507	1511	1516	1525	143
15°	1423	1424	1437	1448	1458	401
25°	1261	1265	1282	1305	1318	579
35°	1028	1037	1058	1083	1095	643
45°	758	766	780	796	804	584
55°	492	499	504	511	512	445
65°	300	296	289	294	300	300
75°	180	174	161	162	164	191
85°	72	70	60	57	59	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.8	1521.8	1521.8	1521.8	1521.8
2.5°	1516.4	1515.6	1517.9	1521.8	1525.7
5°	1509.3	1507.0	1510.9	1516.4	1524.9
7.5°	1498.4	1498.4	1498.4	1508.6	1510.1
10°	1480.5	1482.0	1479.7	1489.8	1493.7
12.5°	1454.7	1455.5	1460.2	1470.3	1477.4
15°	1422.8	1424.3	1436.8	1448.5	1457.9
17.5°	1386.9	1392.3	1404.0	1422.8	1434.5
20°	1352.6	1358.8	1368.2	1388.4	1394.7
22.5°	1308.9	1315.9	1327.6	1345.5	1358.8
25°	1261.3	1265.2	1281.6	1305.0	1317.5
27.5°	1204.4	1212.9	1233.2	1257.4	1274.6
30°	1154.4	1159.1	1177.8	1205.9	1219.2
32.5°	1091.2	1105.3	1120.9	1145.9	1158.3
35°	1028.1	1037.4	1057.7	1082.7	1095.1
37.5°	967.2	972.7	993.0	1014.0	1029.6
40°	894.7	904.8	925.1	947.7	958.6
42.5°	822.1	837.0	850.2	872.8	884.5
45°	758.2	766.0	780.0	796.4	804.2
47.5°	691.1	695.0	711.4	721.5	730.1
50°	621.7	626.4	637.3	647.4	657.6
52.5°	557.7	561.6	568.6	578.0	588.1
55°	492.2	499.2	503.9	510.9	512.5
57.5°	439.2	438.4	441.5	447.0	452.4
60°	384.6	386.1	385.3	390.8	393.1
62.5°	339.3	338.5	333.8	341.6	347.9
65°	299.5	296.4	289.4	294.1	299.5
67.5°	262.9	261.3	249.6	253.5	258.2
70°	234.0	228.5	216.8	219.2	223.1
72.5°	205.9	199.7	188.0	188.8	191.1
75°	180.2	173.9	160.7	161.5	163.8
77.5°	156.0	148.2	136.5	134.9	136.5
80°	130.3	123.2	113.1	108.4	113.1
82.5°	103.7	99.8	88.1	83.5	85.0
85°	72.5	70.2	60.1	56.9	59.3
87.5°	33.5	35.9	30.4	28.1	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)