

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: P292185

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292185
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-LD5-28-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

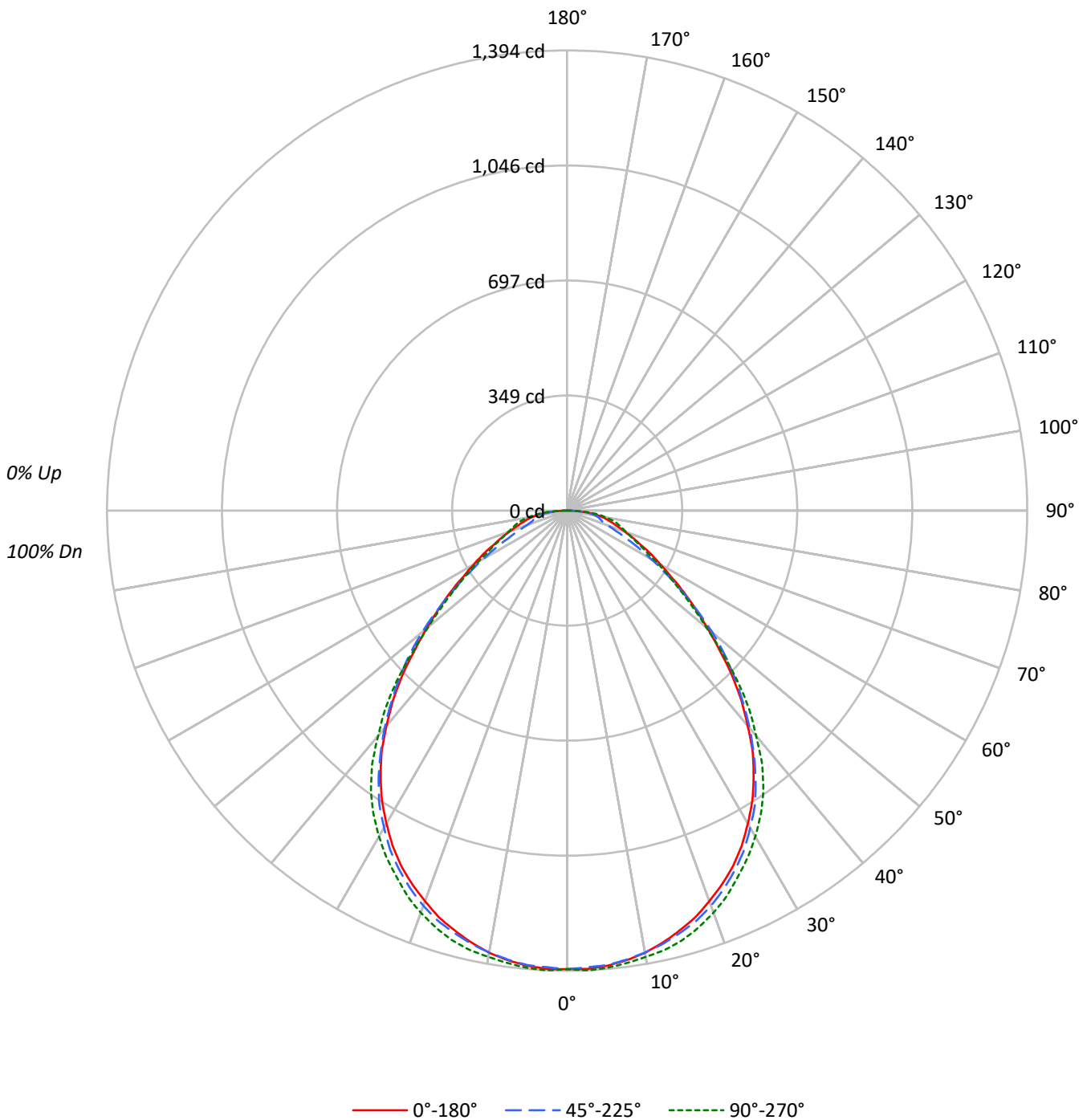
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3738	3738	3738
5°	3739	3733	3756
10°	3716	3715	3751
15°	3669	3689	3754
20°	3606	3648	3713
25°	3529	3569	3634
30°	3402	3448	3542
35°	3234	3272	3404
40°	2990	3022	3129
45°	2686	2734	2777
50°	2323	2405	2299
55°	2026	1974	1947
60°	1755	1580	1687
65°	1568	1240	1515
70°	1455	1028	1494
75°	1452	1087	1658
80°	1609	1367	1870
85°	1677	1482	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	4.3
10°-20°	374.4	12.3
20°-30°	553.7	18.3
30°-40°	624.8	20.6
40°-50°	550.8	18.2
50°-60°	377.8	12.5
60°-70°	223.0	7.4
70°-80°	139.1	4.6
80°-90°	58.0	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°	1059.5	34.9
0°-40°	1684.3	55.5
0°-60°	2612.9	86.1
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1384	1381	1382	1387	1390	131
15°	1317	1318	1324	1340	1347	371
25°	1189	1193	1202	1218	1224	546
35°	985	993	996	1020	1036	614
45°	706	709	718	723	730	542
55°	432	421	421	406	415	387
65°	246	217	195	225	238	248
75°	140	126	104	146	160	150
85°	54	51	48	63	68	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.0	1389.0	1389.0	1389.0	1389.0
2.5°	1389.7	1386.2	1384.8	1390.4	1393.9
5°	1384.1	1381.2	1381.9	1386.9	1390.4
7.5°	1374.2	1372.1	1372.1	1379.1	1382.7
10°	1360.1	1359.4	1359.4	1367.8	1372.8
12.5°	1340.3	1341.0	1343.8	1355.1	1363.6
15°	1317.0	1318.4	1324.1	1340.3	1347.4
17.5°	1291.6	1291.6	1302.9	1315.6	1324.1
20°	1259.1	1261.3	1274.0	1288.1	1296.5
22.5°	1226.0	1229.5	1240.1	1256.3	1264.1
25°	1188.6	1192.8	1202.0	1217.5	1223.8
27.5°	1144.8	1150.4	1160.3	1171.6	1185.0
30°	1094.7	1103.2	1109.5	1125.0	1139.9
32.5°	1043.9	1051.6	1058.7	1074.9	1091.9
35°	984.6	993.1	995.9	1019.9	1036.1
37.5°	923.9	927.4	928.8	952.8	970.5
40°	851.2	858.2	860.4	879.4	890.7
42.5°	781.3	784.1	788.4	802.5	815.9
45°	705.8	709.3	718.5	722.7	729.8
47.5°	626.7	637.3	647.9	634.5	635.2
50°	554.8	563.2	574.5	549.1	549.1
52.5°	490.5	494.8	495.5	474.3	478.5
55°	431.9	421.4	420.7	406.5	415.0
57.5°	373.4	359.2	354.3	350.1	360.0
60°	326.1	300.7	293.6	300.0	313.4
62.5°	287.3	254.8	241.4	257.6	269.6
65°	246.3	216.7	194.8	225.1	237.9
67.5°	214.6	186.3	158.1	201.2	210.3
70°	184.9	163.0	130.6	182.8	189.9
72.5°	160.9	144.0	112.9	165.2	173.6
75°	139.7	125.6	104.5	146.1	159.5
77.5°	122.8	107.3	97.4	126.3	142.6
80°	103.8	88.2	88.2	105.9	120.7
82.5°	81.9	69.2	71.3	86.1	96.7
85°	54.3	50.8	48.0	62.8	68.5
87.5°	27.5	28.2	25.4	32.5	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)