

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: P291902

Luminaire Tested: **22GR-LD5-36-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291902
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2835.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

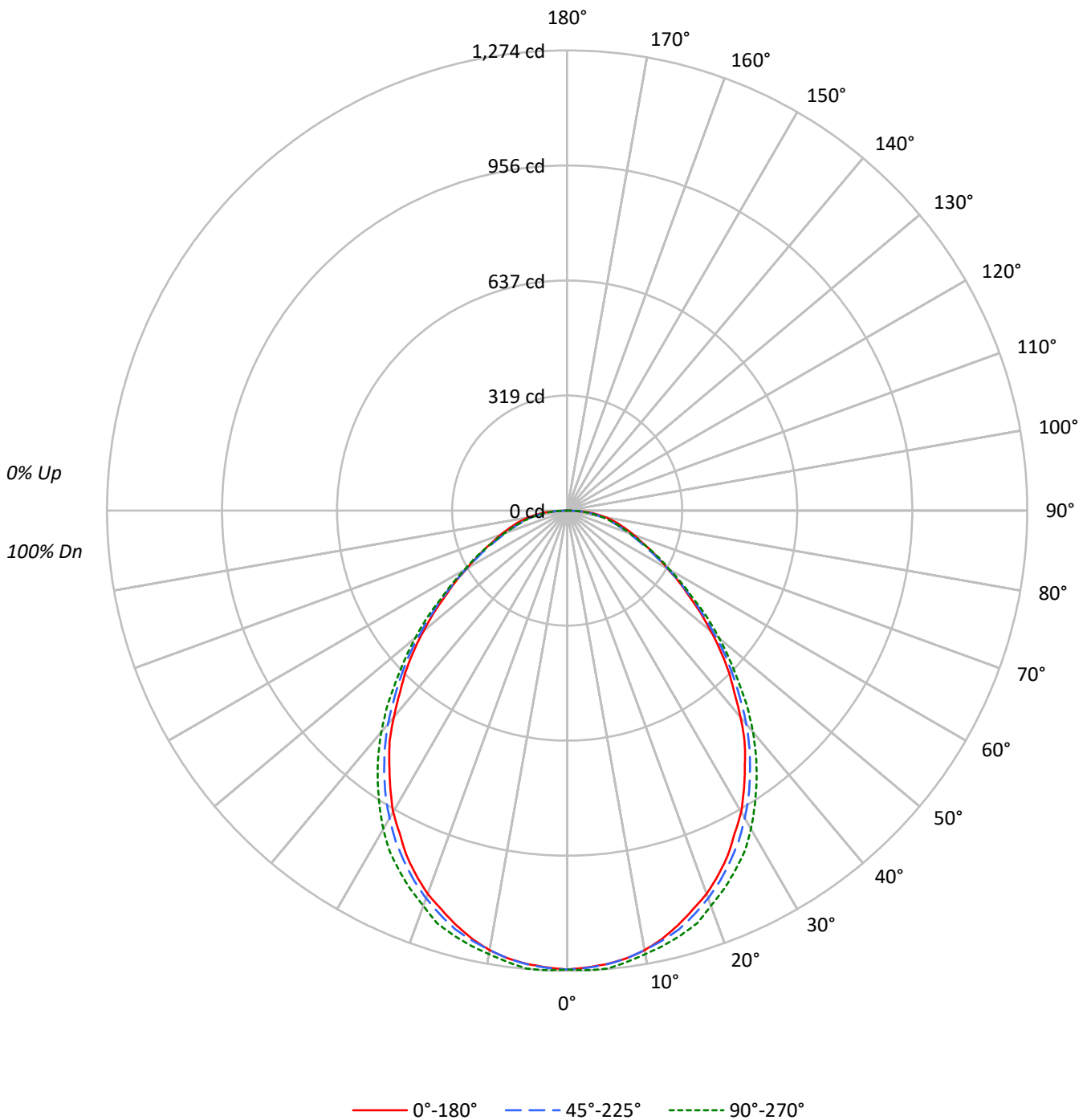
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3419	3419	3419
5°	3404	3407	3439
10°	3377	3375	3407
15°	3309	3341	3390
20°	3233	3271	3334
25°	3126	3177	3265
30°	2994	3055	3163
35°	2819	2901	3003
40°	2624	2713	2811
45°	2409	2478	2555
50°	2173	2227	2298
55°	1928	1974	2007
60°	1728	1731	1766
65°	1592	1538	1592
70°	1537	1424	1465
75°	1564	1394	1421
80°	1684	1463	1463
85°	1871	1547	1528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	4.2
10°-20°	338.0	11.9
20°-30°	493.3	17.4
30°-40°	552.3	19.5
40°-50°	502.7	17.7
50°-60°	378.3	13.3
60°-70°	246.9	8.7
70°-80°	148.1	5.2
80°-90°	55.5	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°	951.2	33.6
0°-40°	1503.5	53.0
0°-60°	2384.5	84.1
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1260	1258	1261	1266	1273	120
15°	1188	1189	1199	1209	1217	335
25°	1053	1056	1070	1089	1100	483
35°	858	866	883	904	914	536
45°	633	639	651	665	671	487
55°	411	417	421	426	428	371
65°	250	247	242	246	250	250
75°	150	145	134	135	137	160
85°	61	59	50	48	50	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1265.9	1265.2	1267.2	1270.4	1273.7
5°	1260.0	1258.1	1261.3	1265.9	1273.0
7.5°	1250.9	1250.9	1250.9	1259.4	1260.7
10°	1235.9	1237.2	1235.3	1243.7	1247.0
12.5°	1214.4	1215.1	1219.0	1227.4	1233.3
15°	1187.7	1189.0	1199.4	1209.2	1217.0
17.5°	1157.8	1162.3	1172.1	1187.7	1197.5
20°	1129.1	1134.3	1142.1	1159.1	1164.3
22.5°	1092.7	1098.5	1108.3	1123.3	1134.3
25°	1052.9	1056.2	1069.9	1089.4	1099.8
27.5°	1005.4	1012.6	1029.5	1049.7	1064.0
30°	963.7	967.6	983.3	1006.7	1017.8
32.5°	911.0	922.7	935.7	956.6	967.0
35°	858.2	866.1	883.0	903.8	914.2
37.5°	807.4	812.0	828.9	846.5	859.5
40°	746.9	755.4	772.3	791.2	800.3
42.5°	686.3	698.7	709.8	728.7	738.4
45°	632.9	639.4	651.2	664.8	671.4
47.5°	576.9	580.2	593.9	602.3	609.5
50°	519.0	522.9	532.0	540.5	548.9
52.5°	465.6	468.8	474.7	482.5	491.0
55°	410.9	416.7	420.7	426.5	427.8
57.5°	366.6	366.0	368.6	373.1	377.7
60°	321.0	322.3	321.7	326.2	328.2
62.5°	283.3	282.6	278.7	285.2	290.4
65°	250.0	247.4	241.6	245.5	250.0
67.5°	219.4	218.1	208.4	211.6	215.5
70°	195.3	190.8	181.0	183.0	186.2
72.5°	171.9	166.7	156.9	157.6	159.5
75°	150.4	145.2	134.1	134.8	136.7
77.5°	130.2	123.7	114.0	112.7	114.0
80°	108.7	102.9	94.4	90.5	94.4
82.5°	86.6	83.3	73.6	69.7	71.0
85°	60.6	58.6	50.1	47.5	49.5
87.5°	28.0	30.0	25.4	23.4	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)