

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: P291792

Luminaire Tested: **22GR-LD5-28-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291792
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-LD5-28-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

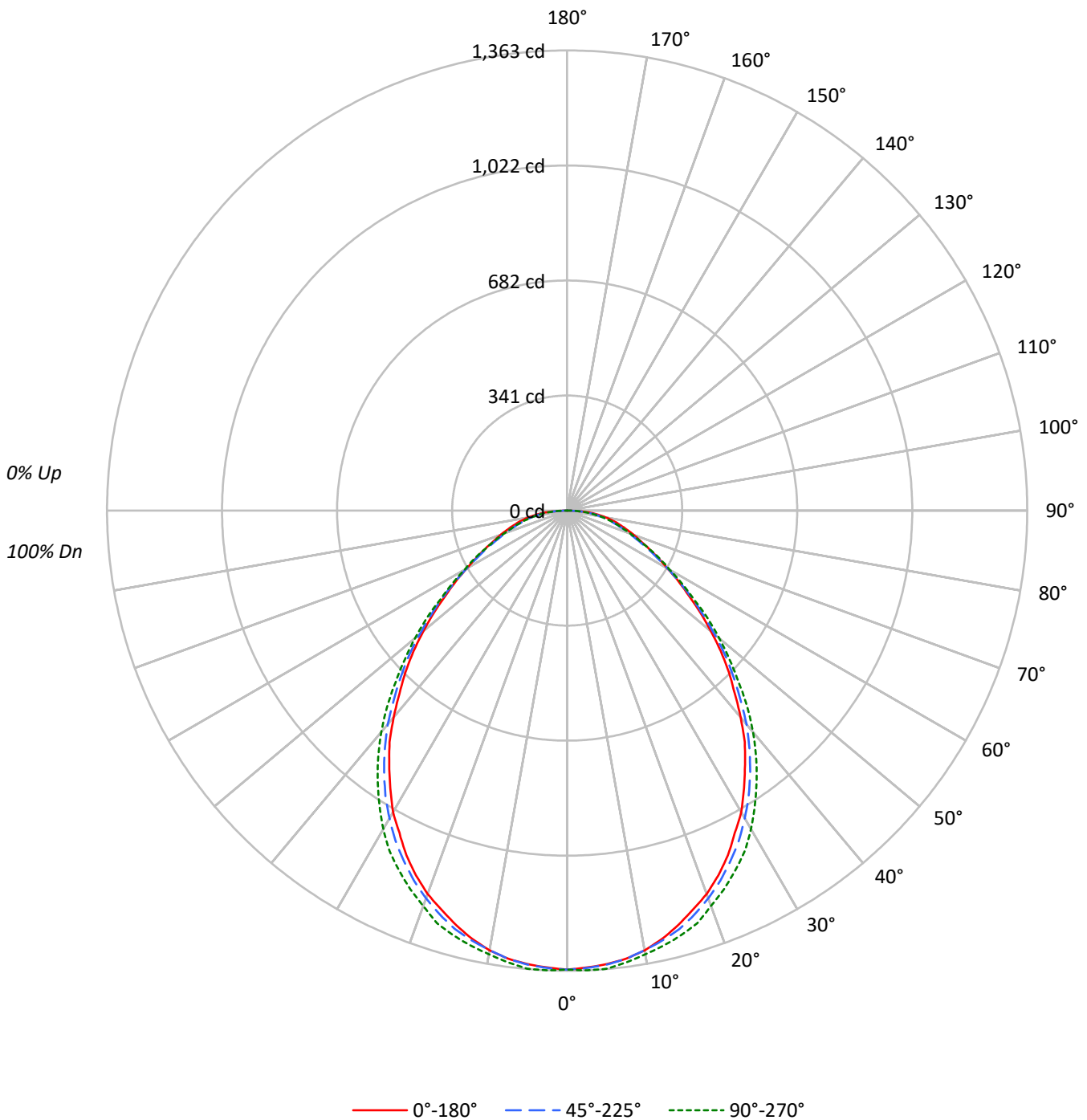
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3659	3659	3659
5°	3643	3646	3680
10°	3614	3612	3647
15°	3541	3576	3629
20°	3460	3500	3568
25°	3346	3400	3495
30°	3205	3270	3384
35°	3017	3104	3214
40°	2808	2903	3009
45°	2578	2652	2734
50°	2325	2383	2460
55°	2063	2112	2148
60°	1849	1853	1890
65°	1704	1646	1704
70°	1645	1524	1568
75°	1674	1493	1521
80°	1804	1565	1565
85°	2001	1658	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	4.2
10°-20°	361.7	11.9
20°-30°	528.0	17.4
30°-40°	591.1	19.5
40°-50°	537.9	17.7
50°-60°	404.9	13.3
60°-70°	264.2	8.7
70°-80°	158.5	5.2
80°-90°	59.4	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°	1018.0	33.6
0°-40°	1609.0	53.0
0°-60°	2551.9	84.1
0°-90°	3034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1348	1346	1350	1355	1362	128
15°	1271	1272	1284	1294	1302	358
25°	1127	1130	1145	1166	1177	517
35°	918	927	945	967	978	574
45°	677	684	697	712	718	522
55°	440	446	450	456	458	397
65°	268	265	258	263	268	268
75°	161	155	144	144	146	171
85°	65	63	54	51	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.6	1359.6	1359.6	1359.6	1359.6
2.5°	1354.7	1354.0	1356.1	1359.6	1363.1
5°	1348.5	1346.4	1349.8	1354.7	1362.4
7.5°	1338.7	1338.7	1338.7	1347.8	1349.1
10°	1322.7	1324.1	1322.0	1331.0	1334.5
12.5°	1299.7	1300.4	1304.5	1313.6	1319.9
15°	1271.1	1272.5	1283.6	1294.1	1302.5
17.5°	1239.0	1243.9	1254.4	1271.1	1281.6
20°	1208.4	1214.0	1222.3	1240.4	1246.0
22.5°	1169.4	1175.6	1186.1	1202.1	1214.0
25°	1126.8	1130.3	1145.0	1165.9	1177.0
27.5°	1076.0	1083.6	1101.8	1123.4	1138.7
30°	1031.4	1035.6	1052.3	1077.4	1089.2
32.5°	974.9	987.5	1001.4	1023.7	1034.9
35°	918.5	926.8	945.0	967.3	978.4
37.5°	864.1	869.0	887.1	905.9	919.9
40°	799.3	808.4	826.5	846.7	856.5
42.5°	734.5	747.7	759.6	779.8	790.3
45°	677.4	684.3	696.9	711.5	718.5
47.5°	617.4	620.9	635.5	644.6	652.3
50°	555.4	559.6	569.3	578.4	587.5
52.5°	498.3	501.7	508.0	516.4	525.4
55°	439.7	446.0	450.2	456.5	457.8
57.5°	392.3	391.6	394.4	399.3	404.2
60°	343.6	345.0	344.3	349.1	351.2
62.5°	303.1	302.4	298.3	305.2	310.8
65°	267.6	264.8	258.5	262.7	267.6
67.5°	234.8	233.5	223.0	226.5	230.7
70°	209.1	204.2	193.7	195.8	199.3
72.5°	184.0	178.4	167.9	168.6	170.7
75°	161.0	155.4	143.6	144.3	146.3
77.5°	139.4	132.4	122.0	120.6	122.0
80°	116.4	110.1	101.0	96.9	101.0
82.5°	92.7	89.2	78.7	74.6	76.0
85°	64.8	62.7	53.7	50.9	53.0
87.5°	30.0	32.1	27.2	25.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)