

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: P291940

Luminaire Tested: **22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2918.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

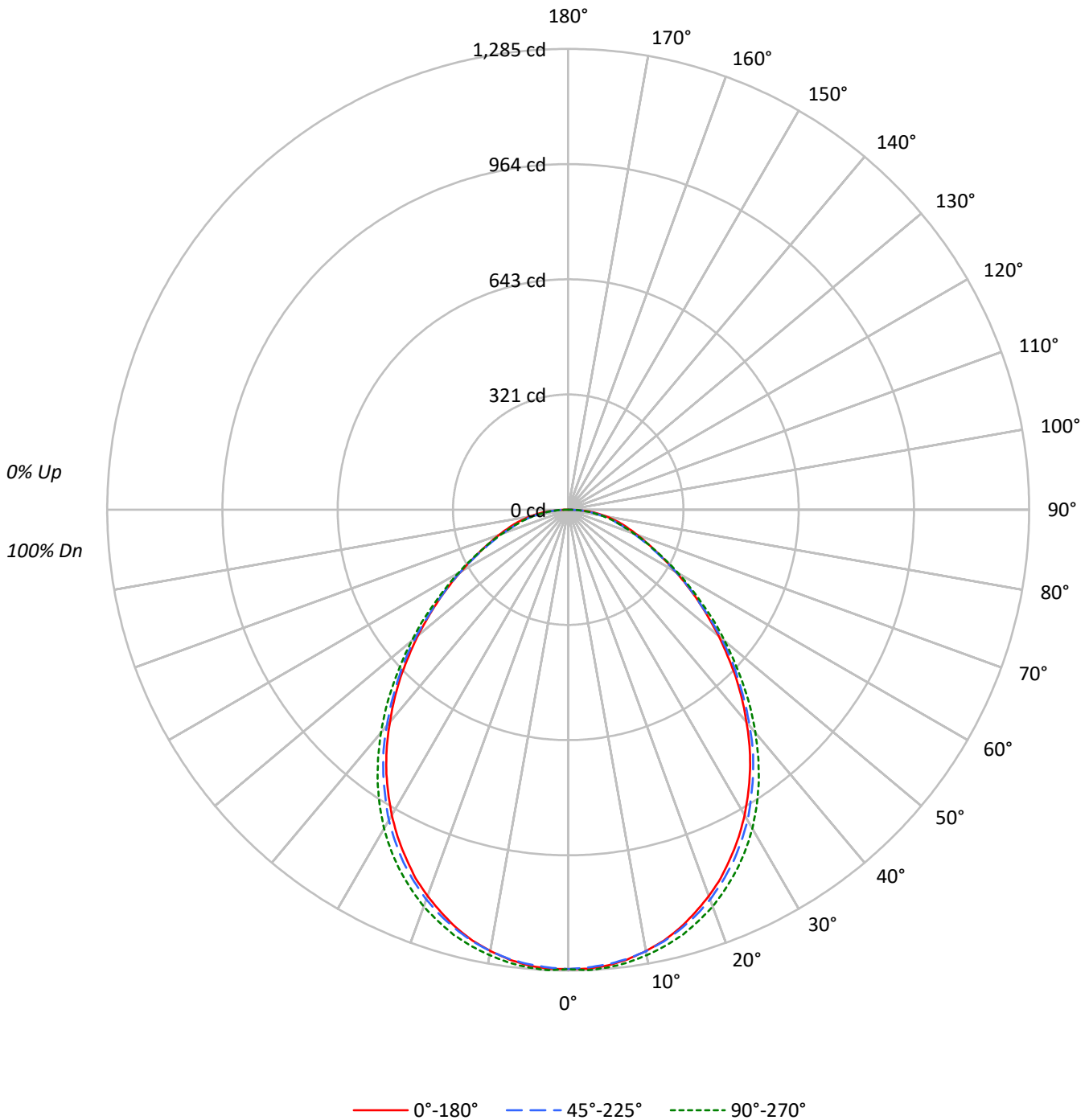
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291940

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291940

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K

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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3447	3447	3447
5°	3446	3437	3460
10°	3413	3415	3447
15°	3361	3373	3422
20°	3283	3312	3372
25°	3180	3225	3295
30°	3055	3107	3189
35°	2905	2952	3043
40°	2716	2761	2852
45°	2515	2554	2628
50°	2290	2327	2387
55°	2068	2074	2135
60°	1855	1862	1906
65°	1690	1656	1694
70°	1609	1519	1544
75°	1619	1464	1471
80°	1678	1480	1469
85°	1840	1568	1485



TEST NUMBER: P291940

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	4.1
10°-20°	341.9	11.7
20°-30°	500.4	17.1
30°-40°	562.6	19.3
40°-50°	518.8	17.8
50°-60°	399.9	13.7
60°-70°	263.9	9.0
70°-80°	153.6	5.3
80°-90°	55.9	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°	963.3	33.0
0°-40°	1525.9	52.3
0°-60°	2444.6	83.8
0°-90°	2918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1276	1273	1272	1278	1281	121
15°	1206	1206	1211	1221	1228	340
25°	1071	1076	1086	1101	1110	493
35°	884	888	898	917	926	551
45°	661	662	671	684	691	509
55°	441	440	442	450	455	395
65°	265	264	260	262	266	266
75°	156	149	141	138	142	164
85°	60	59	51	47	48	63
90°	0	0	0	0	0	



TEST NUMBER: P291940

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1281.0	1278.3	1277.6	1282.4	1285.1
5°	1275.6	1272.9	1272.2	1278.3	1281.0
7.5°	1264.8	1262.7	1263.4	1270.2	1273.6
10°	1249.2	1248.5	1249.9	1257.3	1261.4
12.5°	1230.9	1230.2	1232.9	1241.1	1246.5
15°	1206.5	1206.5	1210.6	1221.4	1228.2
17.5°	1177.4	1179.5	1185.5	1196.4	1203.8
20°	1146.3	1148.3	1156.4	1168.6	1177.4
22.5°	1111.7	1114.5	1122.6	1137.5	1144.9
25°	1071.1	1076.5	1086.0	1100.9	1109.7
27.5°	1029.1	1035.2	1044.0	1062.3	1070.4
30°	983.1	987.2	1000.0	1017.0	1026.4
32.5°	934.4	938.4	949.3	969.6	977.7
35°	884.3	888.3	898.5	916.8	926.2
37.5°	830.1	833.5	845.7	859.9	870.0
40°	773.2	778.0	786.1	803.0	811.8
42.5°	717.7	719.7	728.5	745.5	752.2
45°	660.8	661.5	671.0	684.5	690.6
47.5°	601.9	603.3	614.8	622.9	629.0
50°	547.1	547.7	555.9	563.3	570.1
52.5°	492.2	492.2	496.3	504.4	513.2
55°	440.8	440.1	442.1	449.6	455.0
57.5°	392.0	391.3	394.1	398.8	402.9
60°	344.6	343.3	346.0	348.7	354.1
62.5°	302.6	304.0	300.6	304.7	308.7
65°	265.4	264.1	260.0	262.0	266.1
67.5°	233.6	231.6	224.8	226.1	230.9
70°	204.5	200.4	193.0	193.0	196.3
72.5°	178.1	174.0	164.5	165.2	166.6
75°	155.7	149.0	140.8	138.1	141.5
77.5°	131.4	125.9	118.5	116.5	117.8
80°	108.3	104.3	95.5	92.8	94.8
82.5°	86.0	82.6	72.4	70.4	71.1
85°	59.6	58.9	50.8	46.7	48.1
87.5°	31.8	32.5	26.4	23.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)