

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: P292047

Luminaire Tested: **22GR-LD5-36-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292047
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-LD5-36-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

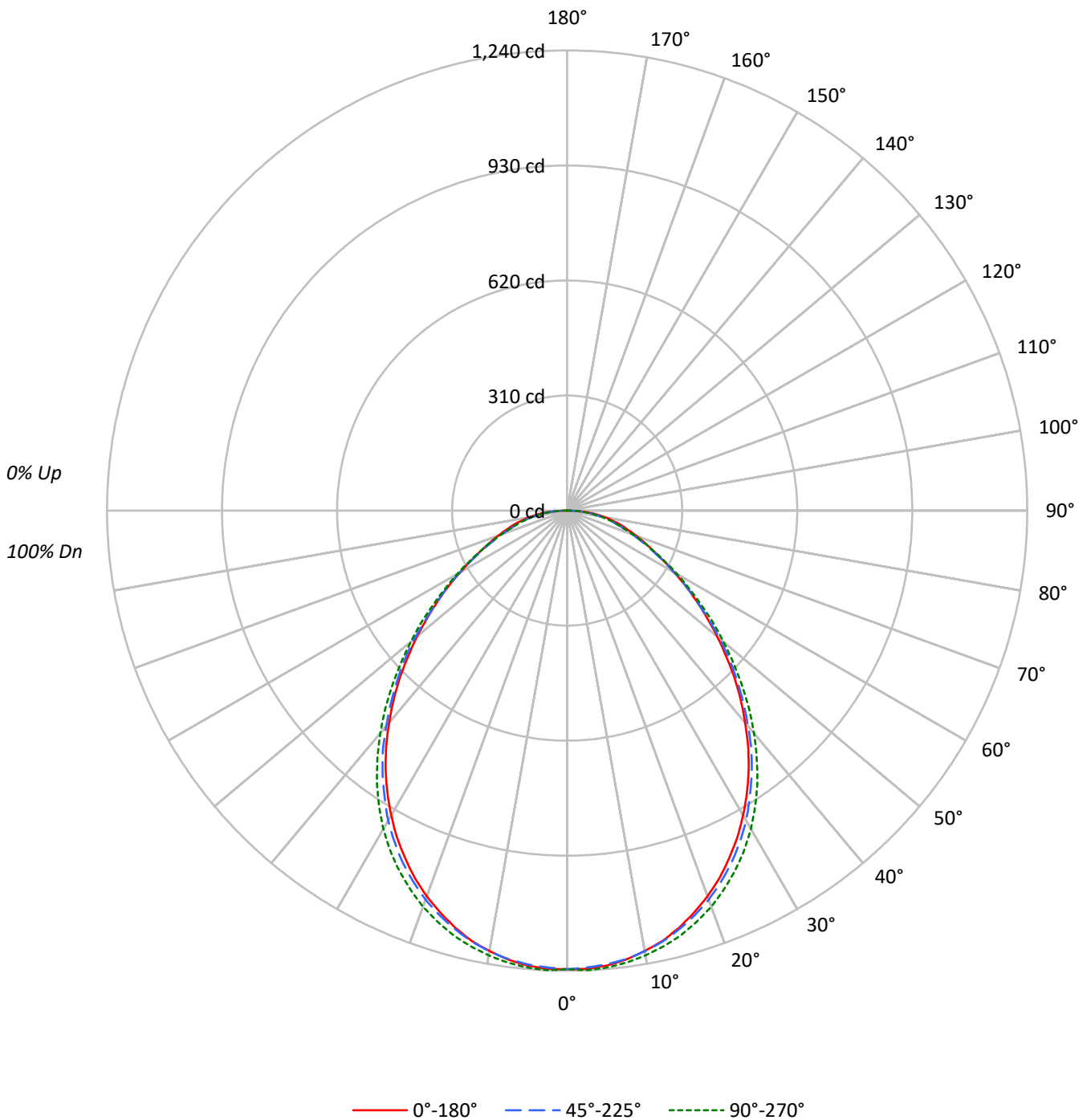
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3326	3326	3326
5°	3324	3315	3338
10°	3293	3295	3325
15°	3243	3254	3301
20°	3167	3195	3253
25°	3068	3111	3178
30°	2947	2998	3077
35°	2802	2848	2935
40°	2620	2664	2751
45°	2426	2463	2535
50°	2210	2245	2303
55°	1995	2001	2059
60°	1790	1796	1838
65°	1630	1597	1635
70°	1552	1465	1490
75°	1562	1413	1419
80°	1619	1427	1416
85°	1775	1513	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	4.1
10°-20°	329.8	11.7
20°-30°	482.7	17.1
30°-40°	542.7	19.3
40°-50°	500.5	17.8
50°-60°	385.8	13.7
60°-70°	254.6	9.0
70°-80°	148.2	5.3
80°-90°	54.0	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°	929.3	33.0
0°-40°	1472.0	52.3
0°-60°	2358.3	83.8
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1231	1228	1227	1233	1236	117
15°	1164	1164	1168	1178	1185	328
25°	1033	1038	1048	1062	1070	475
35°	853	857	867	884	894	532
45°	638	638	647	660	666	491
55°	425	425	426	434	439	382
65°	256	255	251	253	257	257
75°	150	144	136	133	136	158
85°	58	57	49	45	46	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.8	1235.8	1235.8	1235.8	1235.8
2.5°	1235.8	1233.2	1232.5	1237.1	1239.7
5°	1230.6	1228.0	1227.3	1233.2	1235.8
7.5°	1220.1	1218.2	1218.8	1225.3	1228.6
10°	1205.1	1204.4	1205.8	1212.9	1216.9
12.5°	1187.5	1186.8	1189.4	1197.3	1202.5
15°	1163.9	1163.9	1167.9	1178.3	1184.8
17.5°	1135.9	1137.8	1143.7	1154.2	1161.3
20°	1105.8	1107.8	1115.6	1127.4	1135.9
22.5°	1072.5	1075.1	1083.0	1097.3	1104.5
25°	1033.3	1038.5	1047.7	1062.1	1070.5
27.5°	992.8	998.7	1007.2	1024.8	1032.7
30°	948.4	952.3	964.7	981.1	990.2
32.5°	901.4	905.3	915.7	935.3	943.2
35°	853.0	857.0	866.8	884.4	893.5
37.5°	800.8	804.1	815.8	829.5	839.3
40°	745.9	750.5	758.3	774.7	783.2
42.5°	692.4	694.3	702.8	719.1	725.7
45°	637.5	638.1	647.3	660.4	666.2
47.5°	580.7	582.0	593.1	600.9	606.8
50°	527.8	528.4	536.3	543.4	550.0
52.5°	474.9	474.9	478.8	486.6	495.1
55°	425.2	424.6	426.5	433.7	438.9
57.5°	378.2	377.5	380.1	384.7	388.6
60°	332.5	331.2	333.8	336.4	341.6
62.5°	292.0	293.3	290.0	293.9	297.8
65°	256.0	254.7	250.8	252.8	256.7
67.5°	225.3	223.4	216.9	218.2	222.7
70°	197.3	193.3	186.2	186.2	189.4
72.5°	171.8	167.9	158.7	159.4	160.7
75°	150.2	143.7	135.9	133.2	136.5
77.5°	126.7	121.5	114.3	112.3	113.7
80°	104.5	100.6	92.1	89.5	91.4
82.5°	83.0	79.7	69.9	67.9	68.6
85°	57.5	56.8	49.0	45.1	46.4
87.5°	30.7	31.4	25.5	22.9	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)