

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: P291939

Luminaire Tested: **22GR-LD5-28-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291939
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

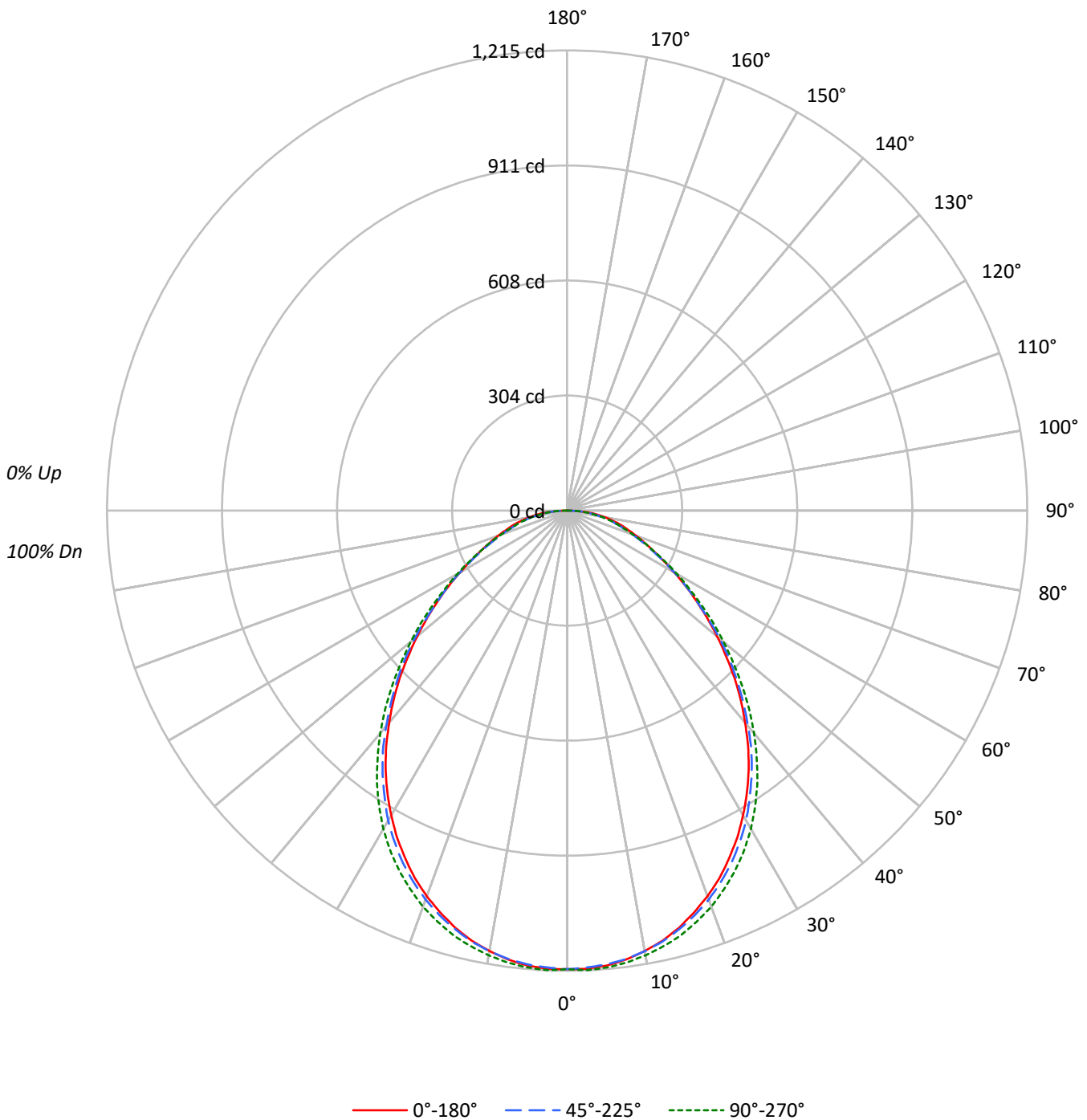
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3258	3258	3258
5°	3257	3248	3271
10°	3226	3228	3258
15°	3177	3188	3234
20°	3103	3130	3187
25°	3006	3048	3114
30°	2887	2937	3015
35°	2746	2790	2876
40°	2567	2610	2695
45°	2377	2414	2484
50°	2165	2200	2256
55°	1955	1961	2017
60°	1753	1760	1801
65°	1598	1564	1601
70°	1521	1435	1460
75°	1530	1384	1390
80°	1587	1398	1389
85°	1738	1482	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	4.1
10°-20°	323.1	11.7
20°-30°	472.9	17.1
30°-40°	531.8	19.3
40°-50°	490.4	17.8
50°-60°	378.0	13.7
60°-70°	249.4	9.0
70°-80°	145.2	5.3
80°-90°	52.9	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°	910.5	33.0
0°-40°	1442.2	52.3
0°-60°	2310.6	83.8
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1206	1203	1202	1208	1211	114
15°	1140	1140	1144	1154	1161	321
25°	1012	1018	1026	1040	1049	466
35°	836	840	849	866	875	521
45°	625	625	634	647	653	481
55°	417	416	418	425	430	374
65°	251	250	246	248	252	252
75°	147	141	133	130	134	155
85°	56	56	48	44	45	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.8	1210.8	1210.8	1210.8	1210.8
2.5°	1210.8	1208.2	1207.6	1212.1	1214.6
5°	1205.7	1203.1	1202.5	1208.2	1210.8
7.5°	1195.4	1193.5	1194.1	1200.5	1203.7
10°	1180.7	1180.1	1181.3	1188.4	1192.2
12.5°	1163.4	1162.8	1165.3	1173.0	1178.1
15°	1140.4	1140.4	1144.2	1154.5	1160.9
17.5°	1112.9	1114.8	1120.5	1130.8	1137.8
20°	1083.4	1085.3	1093.0	1104.5	1112.9
22.5°	1050.8	1053.3	1061.0	1075.1	1082.1
25°	1012.4	1017.5	1026.5	1040.5	1048.9
27.5°	972.7	978.5	986.8	1004.1	1011.8
30°	929.2	933.0	945.2	961.2	970.2
32.5°	883.1	887.0	897.2	916.4	924.1
35°	835.8	839.6	849.2	866.5	875.4
37.5°	784.6	787.8	799.3	812.7	822.3
40°	730.8	735.3	743.0	759.0	767.3
42.5°	678.3	680.3	688.6	704.6	711.0
45°	624.6	625.2	634.2	647.0	652.7
47.5°	568.9	570.2	581.1	588.7	594.5
50°	517.1	517.7	525.4	532.4	538.8
52.5°	465.2	465.2	469.1	476.8	485.1
55°	416.6	416.0	417.9	424.9	430.0
57.5°	370.5	369.9	372.4	376.9	380.8
60°	325.7	324.5	327.0	329.6	334.7
62.5°	286.1	287.3	284.1	288.0	291.8
65°	250.9	249.6	245.7	247.7	251.5
67.5°	220.8	218.9	212.5	213.7	218.2
70°	193.3	189.4	182.4	182.4	185.6
72.5°	168.3	164.5	155.5	156.1	157.4
75°	147.2	140.8	133.1	130.5	133.7
77.5°	124.1	119.0	112.0	110.1	111.4
80°	102.4	98.6	90.2	87.7	89.6
82.5°	81.3	78.1	68.5	66.6	67.2
85°	56.3	55.7	48.0	44.2	45.4
87.5°	30.1	30.7	25.0	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)