

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: P475931

Luminaire Tested: **22GR-LD5-28-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475931
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.6 lumens
Efficiency: N/A
Efficacy: 130.5 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

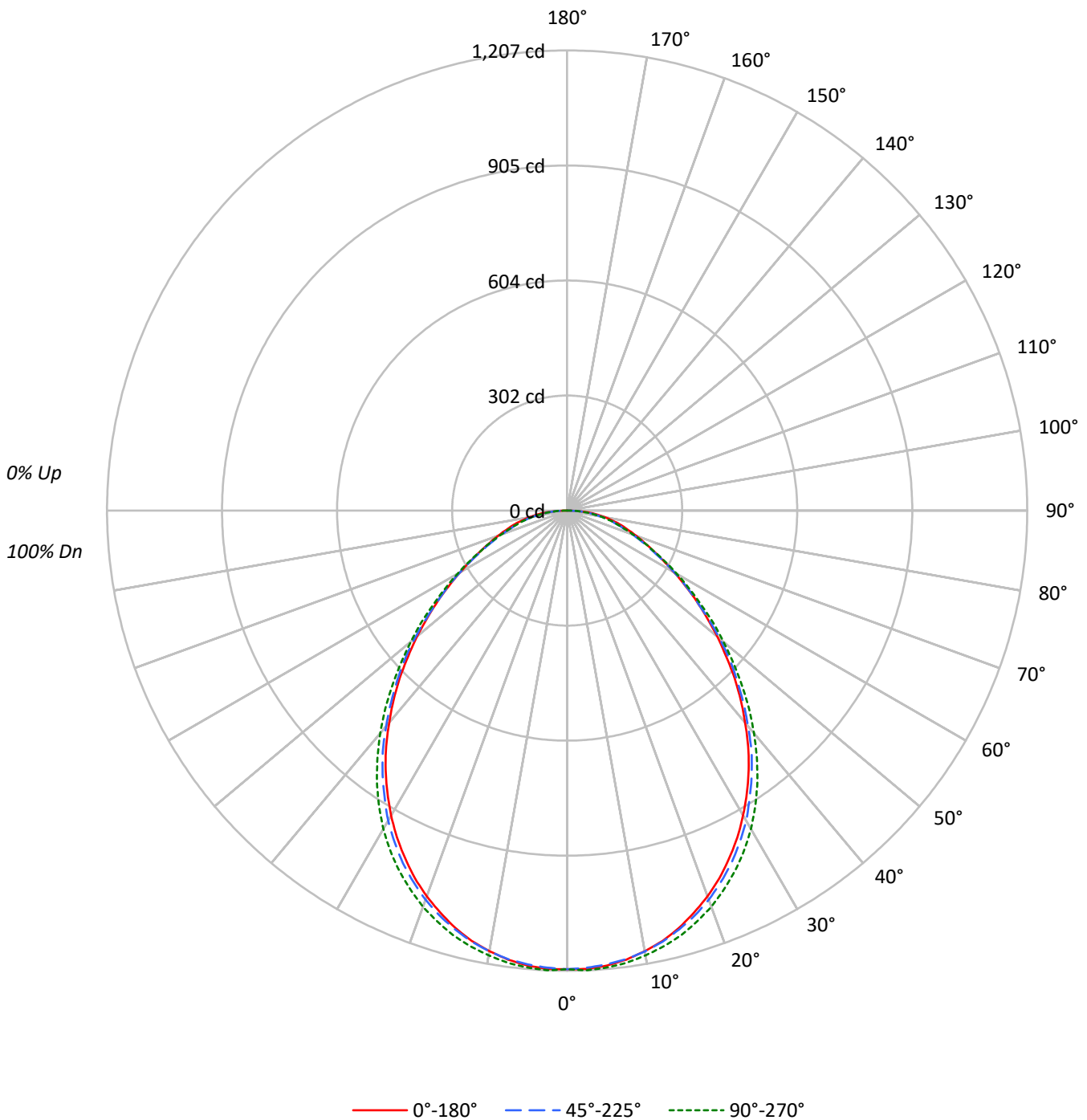
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3238	3238	3238
5°	3236	3227	3250
10°	3206	3208	3237
15°	3157	3168	3214
20°	3083	3110	3167
25°	2987	3029	3094
30°	2869	2919	2995
35°	2728	2772	2858
40°	2551	2593	2679
45°	2362	2398	2468
50°	2151	2185	2242
55°	1942	1948	2005
60°	1742	1749	1790
65°	1587	1554	1591
70°	1511	1426	1451
75°	1520	1375	1382
80°	1578	1390	1379
85°	1729	1470	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	4.1
10°-20°	321.1	11.7
20°-30°	470.0	17.1
30°-40°	528.4	19.3
40°-50°	487.3	17.8
50°-60°	375.6	13.7
60°-70°	247.8	9.0
70°-80°	144.2	5.3
80°-90°	52.5	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°	904.7	33.0
0°-40°	1433.1	52.3
0°-60°	2296.0	83.8
0°-90°	2740.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1198	1196	1195	1200	1203	114
15°	1133	1133	1137	1147	1154	319
25°	1006	1011	1020	1034	1042	463
35°	830	834	844	861	870	518
45°	621	621	630	643	649	478
55°	414	413	415	422	427	371
65°	249	248	244	246	250	250
75°	146	140	132	130	133	154
85°	56	55	48	44	45	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1203.1	1200.5	1199.9	1204.4	1206.9
5°	1198.0	1195.5	1194.8	1200.5	1203.1
7.5°	1187.9	1185.9	1186.6	1193.0	1196.2
10°	1173.3	1172.6	1174.0	1180.9	1184.7
12.5°	1156.1	1155.5	1158.0	1165.6	1170.8
15°	1133.3	1133.3	1137.0	1147.2	1153.6
17.5°	1105.8	1107.7	1113.4	1123.7	1130.6
20°	1076.6	1078.6	1086.1	1097.6	1105.8
22.5°	1044.1	1046.8	1054.3	1068.3	1075.4
25°	1006.1	1011.1	1020.0	1034.0	1042.2
27.5°	966.5	972.2	980.5	997.8	1005.4
30°	923.3	927.2	939.3	955.1	964.0
32.5°	877.5	881.4	891.5	910.7	918.2
35°	830.4	834.3	843.9	861.0	870.0
37.5°	779.6	782.8	794.3	807.5	817.1
40°	726.3	730.7	738.2	754.2	762.5
42.5°	674.1	676.0	684.2	700.2	706.4
45°	620.6	621.3	630.2	642.8	648.6
47.5°	565.3	566.6	577.4	585.0	590.7
50°	513.8	514.5	522.0	529.1	535.5
52.5°	462.3	462.3	466.2	473.8	482.0
55°	414.0	413.4	415.2	422.3	427.3
57.5°	368.3	367.6	370.1	374.5	378.4
60°	323.7	322.3	324.9	327.6	332.6
62.5°	284.3	285.5	282.3	286.2	290.0
65°	249.3	248.0	244.1	246.1	249.8
67.5°	219.4	217.5	211.1	212.3	216.9
70°	192.0	188.3	181.2	181.2	184.4
72.5°	167.2	163.4	154.4	155.1	156.5
75°	146.2	140.0	132.2	129.7	132.9
77.5°	123.3	118.3	111.2	109.4	110.7
80°	101.8	97.9	89.7	87.1	89.0
82.5°	80.8	77.6	68.0	66.1	66.8
85°	56.0	55.4	47.6	43.9	45.1
87.5°	29.9	30.5	24.7	22.2	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)