

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: P475930

Luminaire Tested: **22GR-LD5-24-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475930
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-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: 2347.8 lumens
Efficiency: N/A
Efficacy: 131.2 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

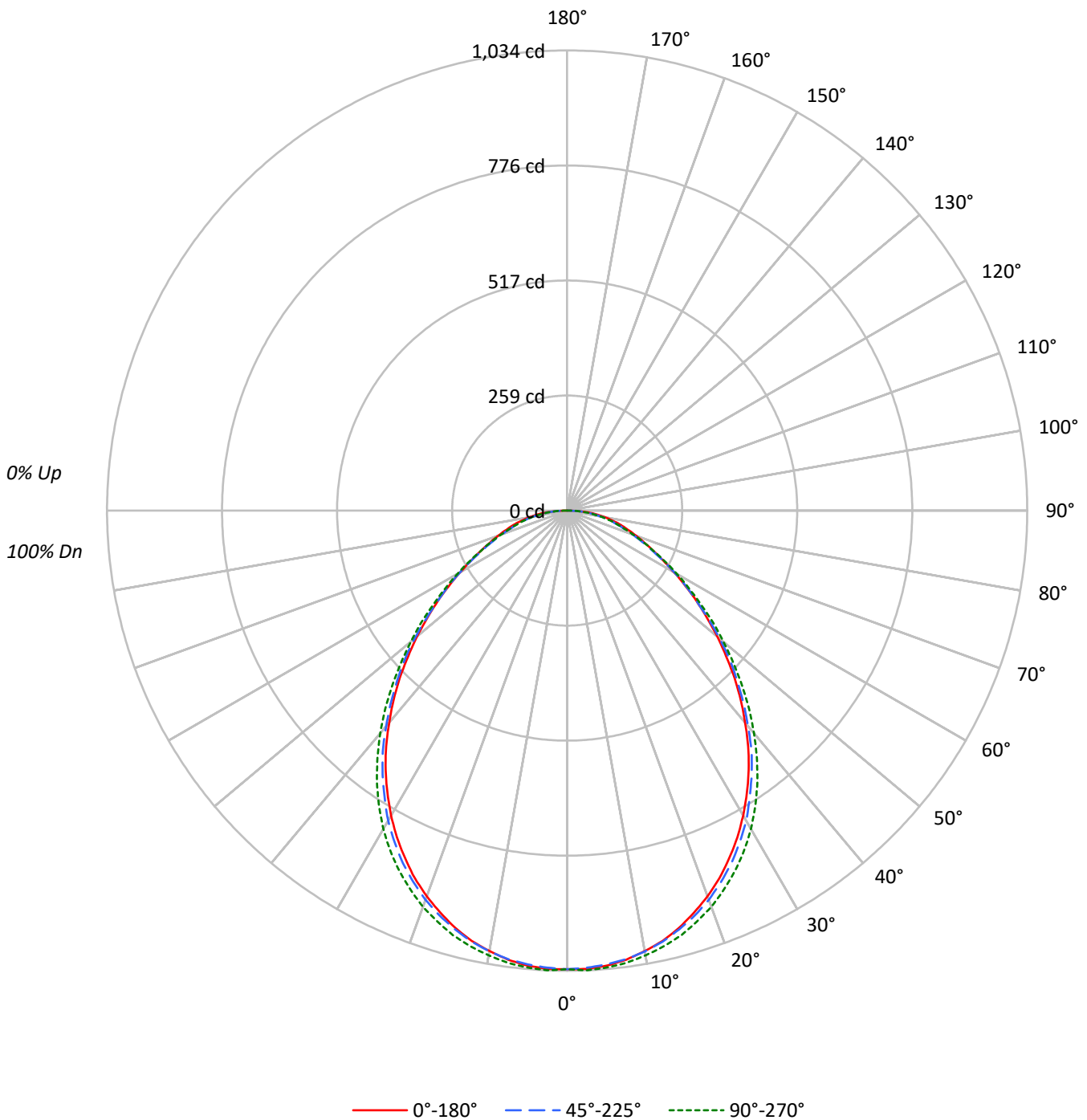
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2774	2774	2774
5°	2772	2765	2784
10°	2746	2748	2773
15°	2705	2713	2753
20°	2641	2665	2713
25°	2559	2594	2651
30°	2458	2500	2566
35°	2337	2375	2448
40°	2186	2222	2295
45°	2023	2055	2114
50°	1843	1872	1921
55°	1664	1669	1718
60°	1492	1498	1533
65°	1360	1331	1363
70°	1294	1221	1243
75°	1302	1178	1184
80°	1351	1190	1181
85°	1482	1260	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	4.1
10°-20°	275.1	11.7
20°-30°	402.6	17.1
30°-40°	452.7	19.3
40°-50°	417.5	17.8
50°-60°	321.8	13.7
60°-70°	212.3	9.0
70°-80°	123.5	5.3
80°-90°	45.0	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°	775.1	33.0
0°-40°	1227.7	52.3
0°-60°	1966.9	83.8
0°-90°	2347.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1026	1024	1024	1028	1031	97
15°	971	971	974	983	988	273
25°	862	866	874	886	893	396
35°	711	715	723	738	745	444
45°	532	532	540	551	556	409
55°	355	354	356	362	366	318
65°	214	212	209	211	214	214
75°	125	120	113	111	114	132
85°	48	47	41	38	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1030.7	1028.5	1027.9	1031.8	1034.0
5°	1026.3	1024.2	1023.6	1028.5	1030.7
7.5°	1017.7	1016.0	1016.5	1022.0	1024.8
10°	1005.1	1004.6	1005.7	1011.6	1014.9
12.5°	990.4	989.9	992.0	998.5	1003.0
15°	970.8	970.8	974.0	982.8	988.3
17.5°	947.4	948.9	953.8	962.6	968.5
20°	922.3	924.0	930.5	940.3	947.4
22.5°	894.5	896.8	903.3	915.2	921.3
25°	861.9	866.2	873.8	885.8	892.9
27.5°	828.0	832.9	840.0	854.8	861.3
30°	791.0	794.3	804.7	818.2	825.9
32.5°	751.8	755.1	763.7	780.2	786.7
35°	711.4	714.7	722.9	737.6	745.3
37.5°	667.9	670.6	680.4	691.8	700.0
40°	622.2	625.9	632.4	646.1	653.2
42.5°	577.5	579.1	586.2	599.9	605.2
45°	531.7	532.3	539.9	550.7	555.6
47.5°	484.3	485.4	494.6	501.1	506.0
50°	440.2	440.7	447.2	453.3	458.8
52.5°	396.1	396.1	399.4	405.9	412.9
55°	354.7	354.1	355.7	361.8	366.1
57.5°	315.5	314.9	317.1	320.8	324.1
60°	277.3	276.1	278.3	280.6	284.9
62.5°	243.6	244.6	241.8	245.2	248.5
65°	213.6	212.4	209.1	210.9	214.0
67.5°	187.9	186.4	180.9	181.9	185.8
70°	164.5	161.3	155.2	155.2	158.0
72.5°	143.3	139.9	132.3	132.9	134.0
75°	125.2	119.9	113.3	111.1	113.9
77.5°	105.6	101.3	95.3	93.7	94.8
80°	87.2	83.9	76.8	74.7	76.2
82.5°	69.2	66.4	58.2	56.6	57.2
85°	48.0	47.4	40.8	37.6	38.6
87.5°	25.7	26.1	21.2	19.0	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)