

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: P475940

Luminaire Tested: **22GR-LD5-90-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475940
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-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: 8740.8 lumens
Efficiency: N/A
Efficacy: 126.1 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

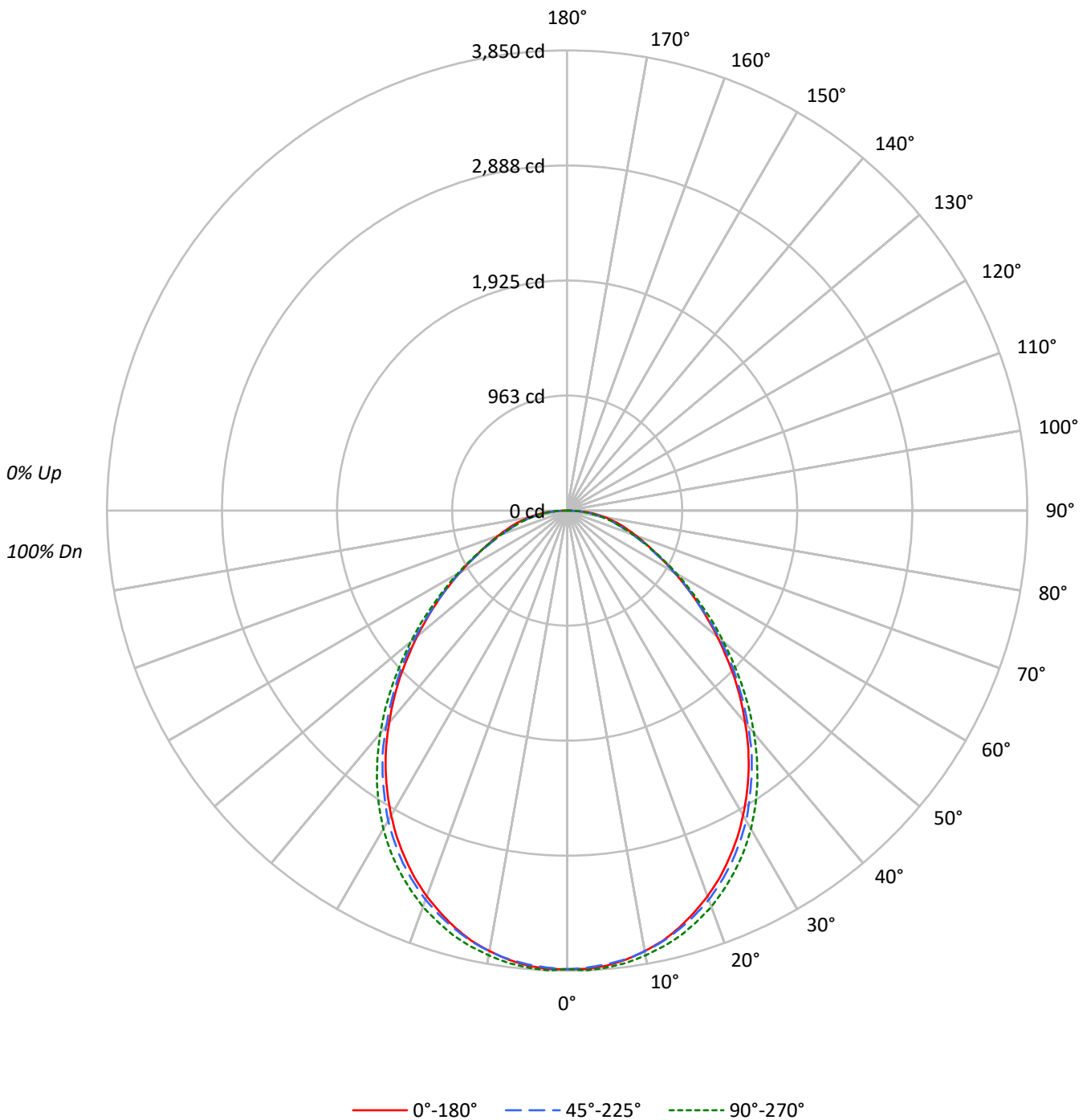
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10326	10326	10326
5°	10322	10294	10365
10°	10225	10231	10325
15°	10069	10102	10250
20°	9833	9920	10100
25°	9527	9660	9870
30°	9150	9309	9554
35°	8701	8842	9115
40°	8137	8271	8542
45°	7533	7649	7872
50°	6860	6970	7150
55°	6195	6213	6394
60°	5556	5576	5709
65°	5063	4958	5074
70°	4817	4547	4627
75°	4848	4386	4407
80°	5030	4432	4400
85°	5517	4690	4440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	4.1
10°-20°	1024.1	11.7
20°-30°	1498.9	17.1
30°-40°	1685.3	19.3
40°-50°	1554.2	17.8
50°-60°	1197.9	13.7
60°-70°	790.4	9.0
70°-80°	460.0	5.3
80°-90°	167.5	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°	2885.6	33.0
0°-40°	4570.9	52.3
0°-60°	7322.9	83.8
0°-90°	8740.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8740.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3837	3837	3837	3837	3837	
5°	3821	3813	3811	3829	3837	362
15°	3614	3614	3626	3659	3679	1017
25°	3209	3225	3253	3298	3324	1476
35°	2649	2661	2692	2746	2775	1651
45°	1980	1982	2010	2050	2068	1524
55°	1320	1318	1324	1347	1363	1185
65°	795	791	779	785	797	797
75°	466	446	422	414	424	491
85°	179	176	152	140	144	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3837.1	3837.1	3837.1	3837.1	3837.1
2.5°	3837.1	3829.1	3826.9	3841.4	3849.5
5°	3821.0	3813.0	3810.8	3829.1	3837.1
7.5°	3788.8	3782.4	3784.5	3804.9	3815.1
10°	3742.1	3740.0	3744.3	3766.3	3778.6
12.5°	3687.4	3685.3	3693.3	3717.5	3734.1
15°	3614.4	3614.4	3626.2	3659.0	3679.4
17.5°	3527.0	3532.9	3551.1	3583.9	3605.9
20°	3433.6	3440.0	3464.2	3500.7	3527.0
22.5°	3330.0	3338.6	3362.8	3407.3	3429.9
25°	3208.8	3224.9	3253.3	3297.9	3324.1
27.5°	3082.7	3100.9	3127.2	3182.5	3206.6
30°	2944.8	2957.1	2995.8	3046.2	3074.6
32.5°	2798.8	2811.2	2843.4	2904.5	2928.7
35°	2648.6	2660.9	2691.5	2746.2	2774.7
37.5°	2486.5	2496.7	2533.2	2575.6	2606.2
40°	2316.4	2330.4	2354.5	2405.5	2431.8
42.5°	2150.1	2156.0	2182.3	2233.3	2253.1
45°	1979.5	1981.6	2010.0	2050.3	2068.5
47.5°	1802.9	1807.2	1841.6	1865.7	1884.0
50°	1638.7	1640.9	1665.0	1687.6	1708.0
52.5°	1474.5	1474.5	1486.9	1511.0	1537.3
55°	1320.5	1318.4	1324.3	1346.8	1362.9
57.5°	1174.6	1172.4	1180.5	1194.4	1206.8
60°	1032.4	1028.1	1036.1	1044.7	1060.8
62.5°	906.8	910.6	900.4	912.7	925.1
65°	795.2	790.9	778.6	785.0	796.8
67.5°	699.7	693.8	673.4	677.2	691.7
70°	612.2	600.4	577.9	577.9	588.1
72.5°	533.4	521.0	492.6	494.7	499.0
75°	466.3	446.4	421.8	413.7	423.9
77.5°	393.3	377.2	354.7	348.8	353.1
80°	324.6	312.3	286.0	278.0	283.9
82.5°	257.6	247.4	216.8	210.9	213.0
85°	178.7	176.5	151.9	140.0	143.8
87.5°	95.5	97.1	78.9	70.8	75.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)