

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: P475975

Luminaire Tested: **22GR-LD5-85-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475975
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-F125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8716.8 lumens
Efficiency: N/A
Efficacy: 134.5 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

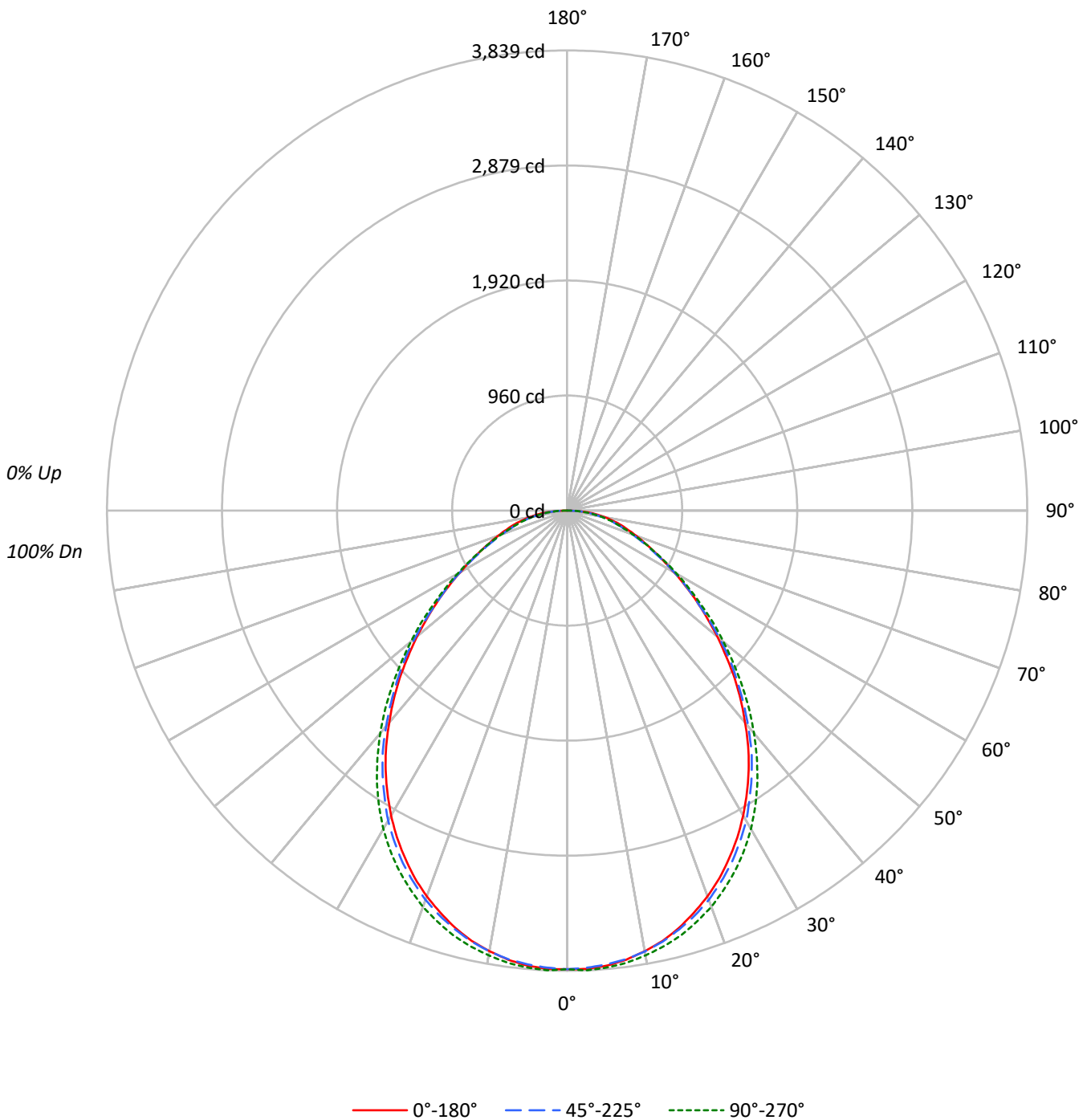
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10297	10297	10297
5°	10293	10266	10337
10°	10197	10203	10297
15°	10042	10075	10222
20°	9806	9893	10072
25°	9501	9633	9843
30°	9125	9283	9528
35°	8677	8817	9090
40°	8115	8248	8519
45°	7512	7628	7850
50°	6841	6951	7131
55°	6178	6196	6377
60°	5541	5561	5694
65°	5049	4944	5060
70°	4804	4534	4615
75°	4835	4373	4395
80°	5016	4420	4387
85°	5502	4675	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	4.1
10°-20°	1021.3	11.7
20°-30°	1494.8	17.1
30°-40°	1680.6	19.3
40°-50°	1549.9	17.8
50°-60°	1194.6	13.7
60°-70°	788.2	9.0
70°-80°	458.7	5.3
80°-90°	167.1	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°	2877.6	33.0
0°-40°	4558.3	52.3
0°-60°	7302.8	83.8
0°-90°	8716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8716.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3827	3827	3827	3827	3827	
5°	3810	3802	3800	3818	3827	361
15°	3604	3604	3616	3649	3669	1014
25°	3200	3216	3244	3289	3315	1472
35°	2641	2654	2684	2739	2767	1647
45°	1974	1976	2004	2045	2063	1520
55°	1317	1315	1321	1343	1359	1181
65°	793	789	776	783	795	795
75°	465	445	421	413	423	490
85°	178	176	151	140	143	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3826.6	3826.6	3826.6	3826.6	3826.6
2.5°	3826.6	3818.5	3816.4	3830.8	3838.9
5°	3810.5	3802.5	3800.3	3818.5	3826.6
7.5°	3778.4	3772.0	3774.1	3794.5	3804.6
10°	3731.8	3729.7	3734.0	3755.9	3768.2
12.5°	3677.3	3675.1	3683.2	3707.2	3723.8
15°	3604.5	3604.5	3616.3	3648.9	3669.2
17.5°	3517.3	3523.2	3541.3	3574.0	3595.9
20°	3424.2	3430.6	3454.7	3491.0	3517.3
22.5°	3320.9	3329.4	3353.5	3397.9	3420.4
25°	3199.9	3216.0	3244.4	3288.8	3315.0
27.5°	3074.2	3092.4	3118.6	3173.7	3197.8
30°	2936.7	2949.0	2987.5	3037.8	3066.2
32.5°	2791.1	2803.4	2835.5	2896.5	2920.6
35°	2641.3	2653.6	2684.1	2738.7	2767.0
37.5°	2479.7	2489.9	2526.2	2568.5	2599.0
40°	2310.1	2324.0	2348.1	2398.9	2425.1
42.5°	2144.2	2150.1	2176.3	2227.1	2246.9
45°	1974.0	1976.2	2004.5	2044.7	2062.8
47.5°	1798.0	1802.2	1836.5	1860.6	1878.8
50°	1634.2	1636.4	1660.4	1682.9	1703.3
52.5°	1470.5	1470.5	1482.8	1506.9	1533.1
55°	1316.9	1314.8	1320.6	1343.1	1359.2
57.5°	1171.4	1169.2	1177.2	1191.2	1203.5
60°	1029.5	1025.3	1033.3	1041.9	1057.9
62.5°	904.3	908.1	897.9	910.2	922.5
65°	793.0	788.8	776.4	782.9	794.6
67.5°	697.8	691.9	671.6	675.3	689.8
70°	610.6	598.8	576.3	576.3	586.5
72.5°	531.9	519.6	491.2	493.4	497.7
75°	465.0	445.2	420.6	412.6	422.7
77.5°	392.2	376.2	353.7	347.8	352.1
80°	323.7	311.4	285.2	277.2	283.1
82.5°	256.9	246.7	216.2	210.3	212.4
85°	178.2	176.1	151.4	139.7	143.4
87.5°	95.2	96.9	78.7	70.6	74.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)