

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: P476083

Luminaire Tested: **22GR-LD5-85-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476083
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8279.8 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

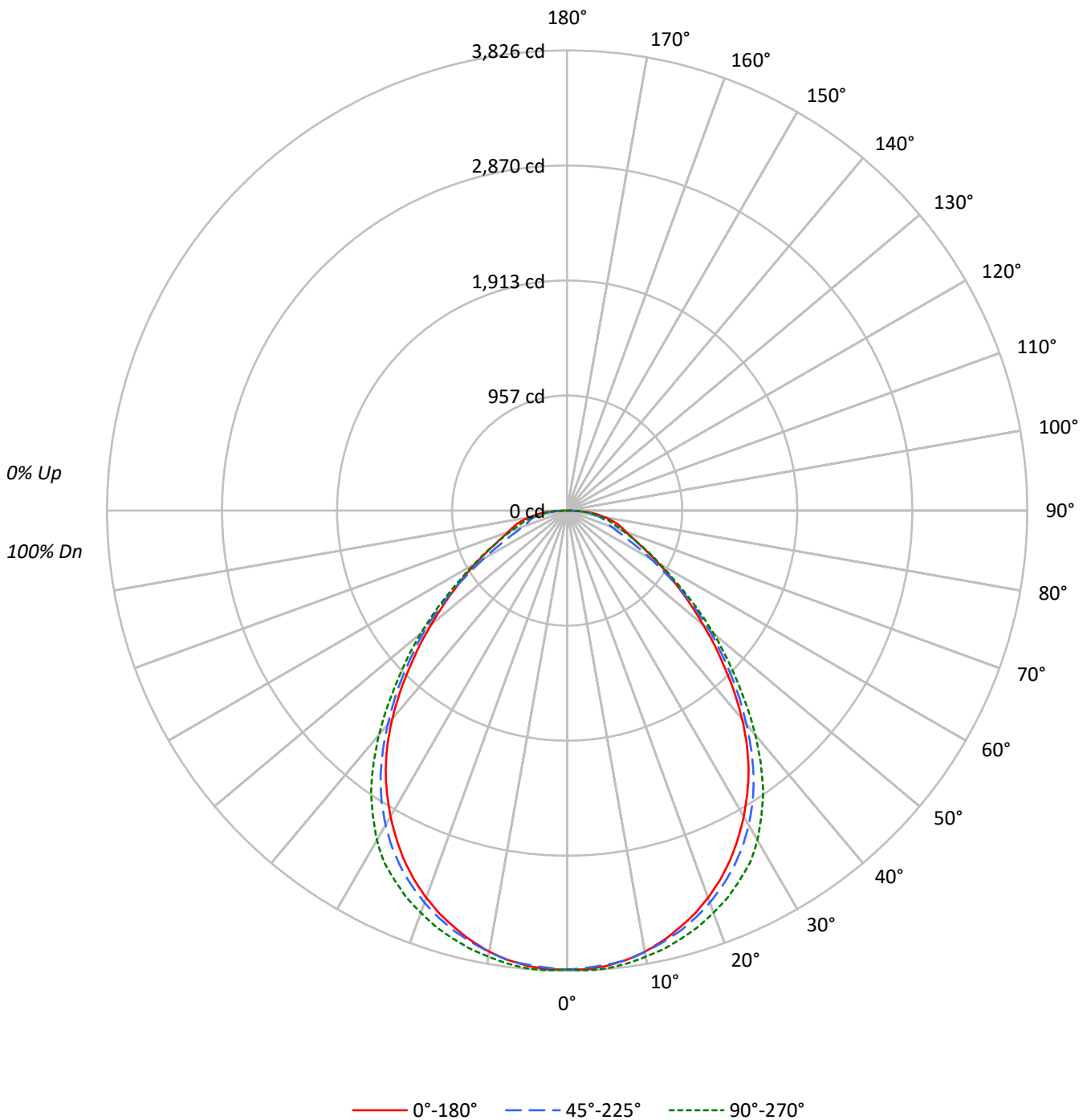
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10270	10270	10270
5°	10263	10236	10321
10°	10176	10186	10292
15°	10014	10085	10256
20°	9808	9935	10190
25°	9521	9715	10072
30°	9125	9382	9832
35°	8643	8885	9335
40°	7949	8144	8552
45°	7060	7317	7581
50°	6167	6449	6644
55°	5361	5435	5634
60°	4717	4322	4811
65°	4192	3454	4215
70°	4115	3066	3890
75°	4498	3373	3973
80°	4939	4006	4251
85°	5897	4653	4764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	4.4
10°-20°	1022.9	12.4
20°-30°	1510.1	18.2
30°-40°	1689.8	20.4
40°-50°	1483.9	17.9
50°-60°	1049.9	12.7
60°-70°	611.2	7.4
70°-80°	380.9	4.6
80°-90°	170.4	2.1
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°	2893.7	34.9
0°-40°	4583.5	55.4
0°-60°	7117.3	86.0
0°-90°	8279.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8279.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3817	3817	3817	3817	3817	
5°	3799	3790	3790	3809	3821	360
15°	3594	3602	3620	3658	3681	1013
25°	3207	3220	3272	3349	3392	1473
35°	2631	2643	2705	2786	2842	1636
45°	1855	1877	1923	1969	1992	1435
55°	1143	1166	1158	1179	1201	1033
65°	658	606	542	591	662	668
75°	433	372	324	332	382	452
85°	191	199	151	147	154	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3816.6	3816.6	3816.6	3816.6	3816.6
2.5°	3816.6	3808.9	3804.9	3818.7	3826.3
5°	3799.2	3789.5	3789.5	3808.9	3820.7
7.5°	3768.6	3758.9	3770.1	3787.5	3799.2
10°	3724.2	3720.1	3727.7	3751.2	3766.6
12.5°	3665.9	3668.0	3675.6	3712.4	3731.8
15°	3594.4	3602.1	3620.0	3658.3	3681.3
17.5°	3517.3	3523.4	3550.0	3594.4	3627.6
20°	3424.8	3436.1	3469.3	3524.9	3558.2
22.5°	3322.2	3336.0	3376.3	3444.2	3484.6
25°	3206.7	3220.0	3272.1	3349.2	3392.1
27.5°	3075.5	3096.4	3154.6	3239.4	3297.1
30°	2936.5	2953.9	3019.3	3115.8	3164.3
32.5°	2787.9	2808.8	2870.6	2963.1	3006.0
35°	2631.1	2642.8	2704.6	2785.8	2841.5
37.5°	2453.8	2459.4	2517.2	2592.8	2642.8
40°	2262.8	2266.4	2318.5	2390.0	2434.4
42.5°	2063.6	2065.6	2121.8	2175.4	2214.3
45°	1855.2	1876.6	1922.6	1969.1	1992.1
47.5°	1667.7	1683.6	1726.0	1766.3	1787.8
50°	1473.1	1511.4	1540.5	1562.0	1587.0
52.5°	1305.1	1337.8	1345.4	1370.4	1391.9
55°	1142.6	1166.1	1158.5	1179.4	1200.9
57.5°	1005.7	994.0	969.0	1005.7	1032.8
60°	876.5	845.4	803.0	853.5	893.9
62.5°	760.6	710.5	658.4	708.5	775.9
65°	658.4	606.3	542.5	591.0	662.0
67.5°	581.3	527.1	451.5	500.1	571.6
70°	523.0	467.4	389.7	430.6	494.4
72.5°	477.1	416.8	349.4	376.5	430.6
75°	432.6	372.4	324.4	332.0	382.1
77.5°	380.5	336.1	297.3	293.2	332.0
80°	318.7	304.9	258.5	252.8	274.3
82.5°	262.5	256.9	212.5	206.4	214.5
85°	191.0	198.7	150.7	146.6	154.3
87.5°	100.6	109.8	79.2	83.3	84.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)