

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: P475637

Luminaire Tested: **24GR-LD5-120-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475637
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12261.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

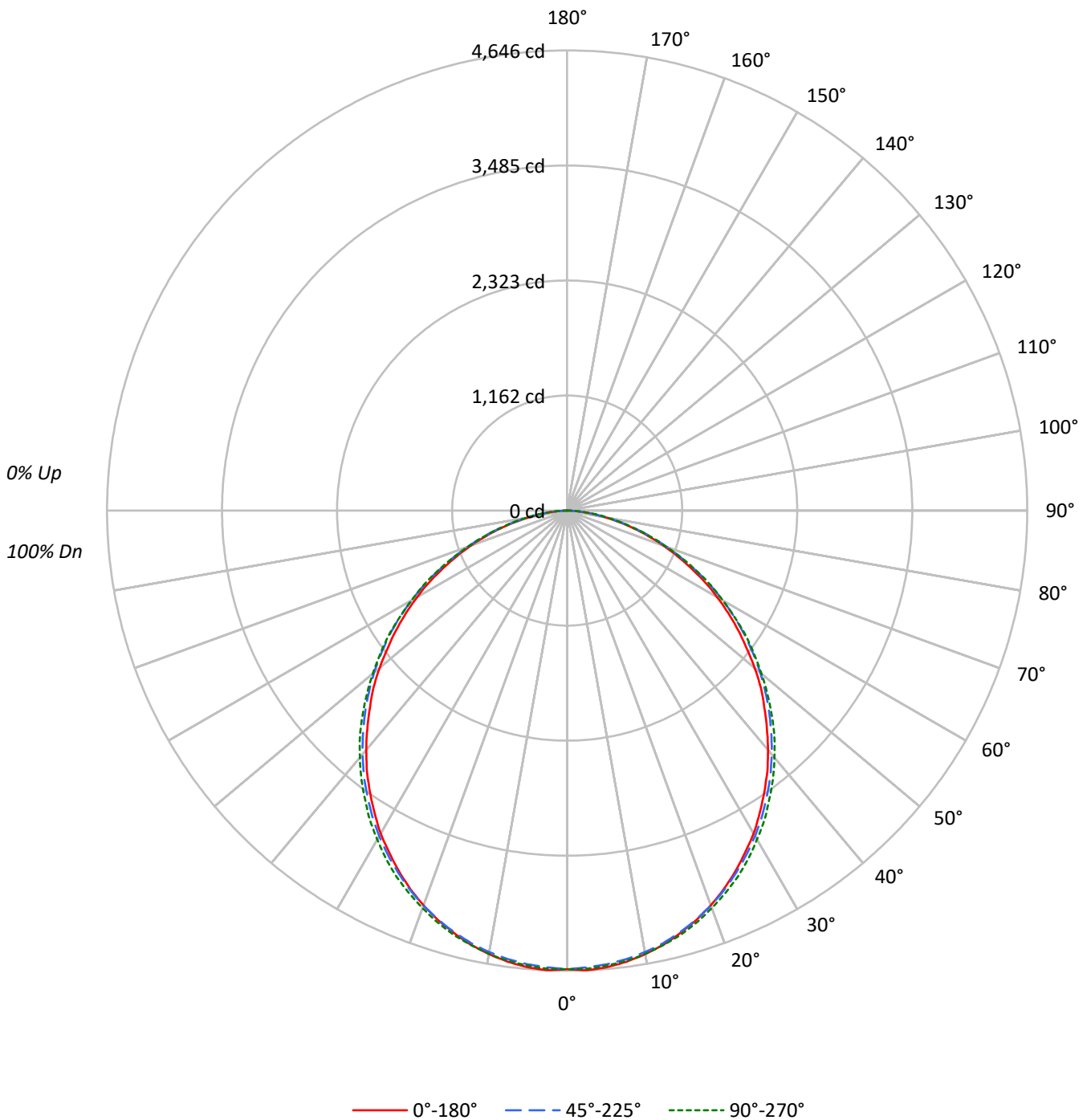
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6230	6230	6230
5°	6249	6210	6228
10°	6213	6184	6209
15°	6152	6138	6176
20°	6073	6075	6116
25°	5967	5991	6054
30°	5851	5895	5956
35°	5700	5778	5845
40°	5544	5644	5718
45°	5360	5491	5561
50°	5174	5325	5361
55°	4950	5128	5165
60°	4713	4874	4880
65°	4404	4574	4598
70°	4080	4194	4181
75°	3624	3754	3765
80°	3032	3140	3258
85°	2276	2447	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	3.6
10°-20°	1244.7	10.2
20°-30°	1860.7	15.2
30°-40°	2198.3	17.9
40°-50°	2219.2	18.1
50°-60°	1936.7	15.8
60°-70°	1411.9	11.5
70°-80°	761.4	6.2
80°-90°	190.6	1.6
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°	3542.9	28.9
0°-40°	5741.2	46.8
0°-60°	9897.1	80.7
0°-90°	12261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4630	4630	4630	4630	4630	
5°	4627	4610	4598	4602	4611	439
15°	4416	4407	4407	4417	4434	1245
25°	4020	4020	4036	4061	4078	1851
35°	3470	3480	3518	3552	3559	2171
45°	2817	2837	2886	2922	2923	2175
55°	2110	2136	2186	2194	2202	1886
65°	1383	1413	1437	1440	1444	1374
75°	697	704	722	725	724	741
85°	147	151	158	166	164	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4630.4	4630.4	4630.4	4630.4	4630.4
2.5°	4645.7	4629.0	4615.8	4618.6	4629.7
5°	4627.0	4610.3	4597.8	4601.9	4611.0
7.5°	4593.6	4578.3	4568.6	4572.7	4584.6
10°	4547.7	4535.2	4526.2	4532.4	4544.9
12.5°	4489.3	4476.8	4473.4	4482.4	4493.5
15°	4416.4	4407.3	4406.6	4417.1	4433.7
17.5°	4334.3	4325.3	4330.2	4344.1	4358.7
20°	4241.2	4232.9	4242.6	4261.4	4271.1
22.5°	4134.9	4127.9	4145.3	4164.8	4177.3
25°	4019.5	4020.2	4035.5	4061.2	4077.9
27.5°	3891.6	3896.5	3919.4	3944.4	3961.1
30°	3765.8	3761.6	3794.3	3821.4	3833.9
32.5°	3619.8	3621.9	3660.1	3687.9	3706.7
35°	3470.4	3480.1	3517.7	3551.7	3558.7
37.5°	3319.6	3326.5	3371.7	3405.1	3414.1
40°	3156.2	3168.7	3213.2	3244.5	3255.6
42.5°	2985.9	3001.9	3049.9	3082.6	3097.2
45°	2817.0	2837.2	2885.9	2922.0	2922.7
47.5°	2653.7	2668.3	2715.6	2747.5	2744.1
50°	2471.6	2493.2	2543.9	2563.4	2561.3
52.5°	2285.3	2318.0	2364.6	2379.9	2377.8
55°	2110.2	2135.9	2185.9	2194.3	2201.9
57.5°	1928.8	1951.0	2005.2	2008.7	2007.3
60°	1751.5	1771.7	1811.3	1821.0	1813.4
62.5°	1572.9	1593.1	1628.5	1638.2	1636.8
65°	1383.2	1413.0	1436.7	1439.5	1444.3
67.5°	1206.6	1225.4	1248.3	1252.5	1249.0
70°	1037.0	1053.0	1066.2	1069.0	1062.7
72.5°	861.9	876.5	895.2	898.7	891.8
75°	697.1	704.1	722.2	724.9	724.2
77.5°	537.3	542.8	556.0	566.5	567.9
80°	391.3	393.4	405.2	412.9	420.5
82.5°	259.3	264.8	273.9	281.5	288.4
85°	147.4	150.8	158.5	166.1	164.0
87.5°	57.0	64.6	65.3	73.0	75.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)