

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: P475594

Luminaire Tested: **24GR-LD5-150-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475594
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-F125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14553.7 lumens
Efficiency: N/A
Efficacy: 140.8 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

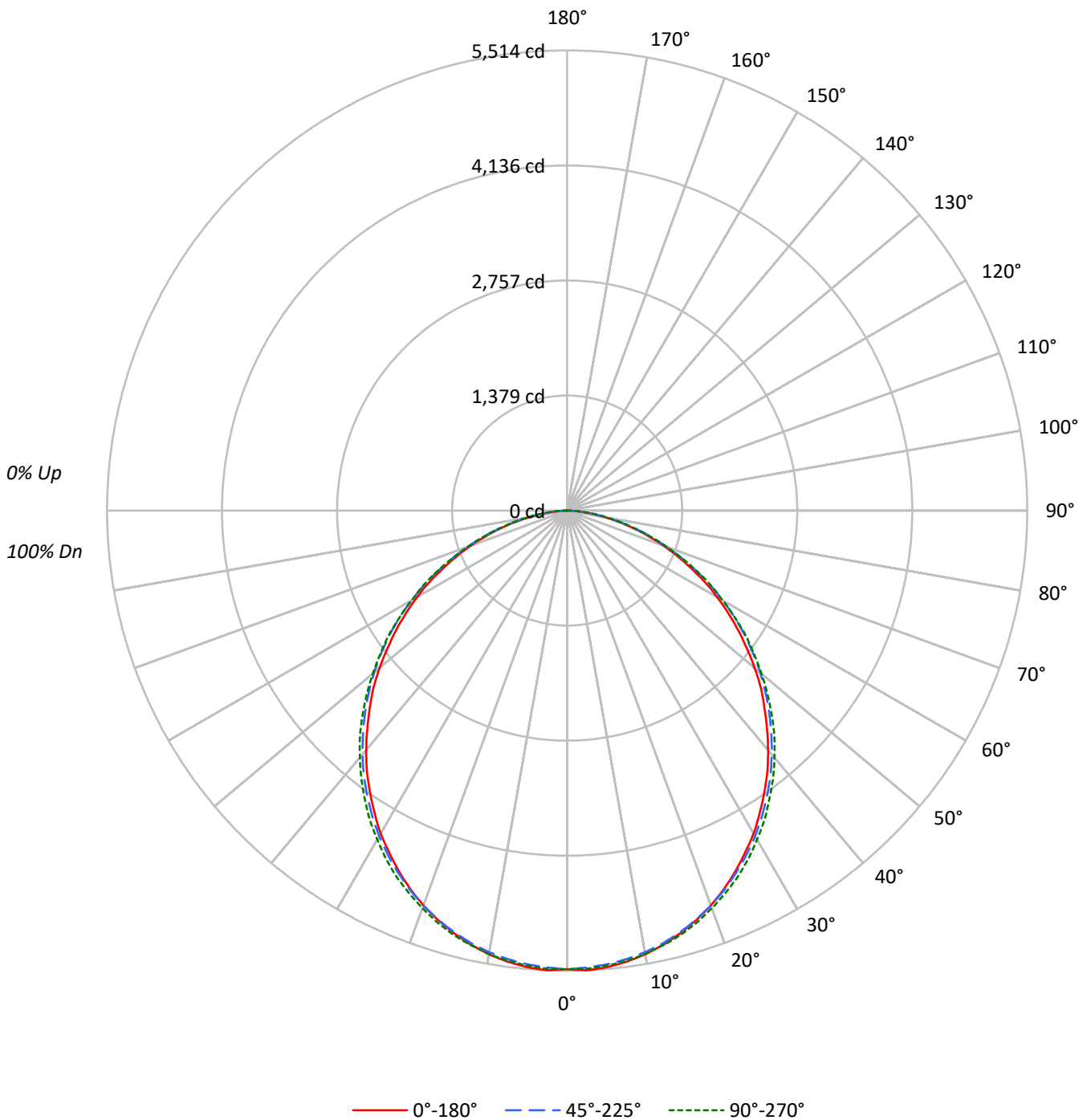
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7395	7395	7395
5°	7418	7371	7392
10°	7375	7340	7371
15°	7302	7286	7331
20°	7208	7211	7259
25°	7083	7111	7186
30°	6945	6997	7070
35°	6766	6858	6938
40°	6580	6699	6787
45°	6363	6518	6601
50°	6141	6321	6364
55°	5876	6087	6131
60°	5595	5786	5792
65°	5227	5429	5458
70°	4842	4979	4963
75°	4302	4456	4469
80°	3599	3727	3867
85°	2700	2904	3006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.3	3.6
10°-20°	1477.5	10.2
20°-30°	2208.6	15.2
30°-40°	2609.4	17.9
40°-50°	2634.1	18.1
50°-60°	2298.8	15.8
60°-70°	1675.9	11.5
70°-80°	903.8	6.2
80°-90°	226.2	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°	4205.4	28.9
0°-40°	6814.8	46.8
0°-60°	11747.7	80.7
0°-90°	14553.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14553.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5496	5496	5496	5496	5496	
5°	5492	5472	5458	5462	5473	521
15°	5242	5231	5231	5243	5263	1478
25°	4771	4772	4790	4821	4840	2197
35°	4119	4131	4175	4216	4224	2577
45°	3344	3368	3426	3468	3469	2582
55°	2505	2535	2595	2605	2614	2239
65°	1642	1677	1705	1709	1714	1631
75°	828	836	857	860	860	879
85°	175	179	188	197	195	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5496.3	5496.3	5496.3	5496.3	5496.3
2.5°	5514.4	5494.6	5478.9	5482.2	5495.4
5°	5492.1	5472.3	5457.5	5462.4	5473.2
7.5°	5452.5	5434.4	5422.8	5427.8	5441.8
10°	5398.1	5383.2	5372.5	5379.9	5394.8
12.5°	5328.8	5313.9	5309.8	5320.5	5333.7
15°	5242.2	5231.4	5230.6	5243.0	5262.8
17.5°	5144.8	5134.1	5139.9	5156.4	5173.7
20°	5034.3	5024.4	5035.9	5058.2	5069.7
22.5°	4908.0	4899.8	4920.4	4943.5	4958.4
25°	4771.1	4771.9	4790.1	4820.6	4840.4
27.5°	4619.3	4625.0	4652.3	4682.0	4701.8
30°	4469.9	4465.0	4503.8	4535.9	4550.8
32.5°	4296.7	4299.2	4344.5	4377.5	4399.8
35°	4119.3	4130.9	4175.4	4215.8	4224.1
37.5°	3940.3	3948.5	4002.2	4041.8	4052.5
40°	3746.4	3761.3	3814.1	3851.2	3864.4
42.5°	3544.3	3563.2	3620.2	3659.0	3676.3
45°	3343.8	3367.7	3425.5	3468.4	3469.2
47.5°	3149.9	3167.2	3223.3	3261.3	3257.2
50°	2933.8	2959.3	3019.6	3042.7	3040.2
52.5°	2712.7	2751.4	2806.7	2824.9	2822.4
55°	2504.8	2535.3	2594.7	2604.6	2613.7
57.5°	2289.4	2315.8	2380.2	2384.3	2382.6
60°	2079.0	2103.0	2150.0	2161.5	2152.5
62.5°	1867.0	1890.9	1933.0	1944.6	1942.9
65°	1641.8	1677.3	1705.3	1708.6	1714.4
67.5°	1432.2	1454.5	1481.7	1486.7	1482.6
70°	1230.9	1249.9	1265.6	1268.9	1261.5
72.5°	1023.0	1040.3	1062.6	1066.7	1058.5
75°	827.5	835.7	857.2	860.5	859.7
77.5°	637.7	644.3	660.0	672.4	674.0
80°	464.5	467.0	481.0	490.1	499.1
82.5°	307.7	314.3	325.1	334.1	342.4
85°	174.9	179.0	188.1	197.2	194.7
87.5°	67.7	76.7	77.6	86.6	89.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)