

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: P475729

Luminaire Tested: **24GR-LD5-150-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475729
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14629.7 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

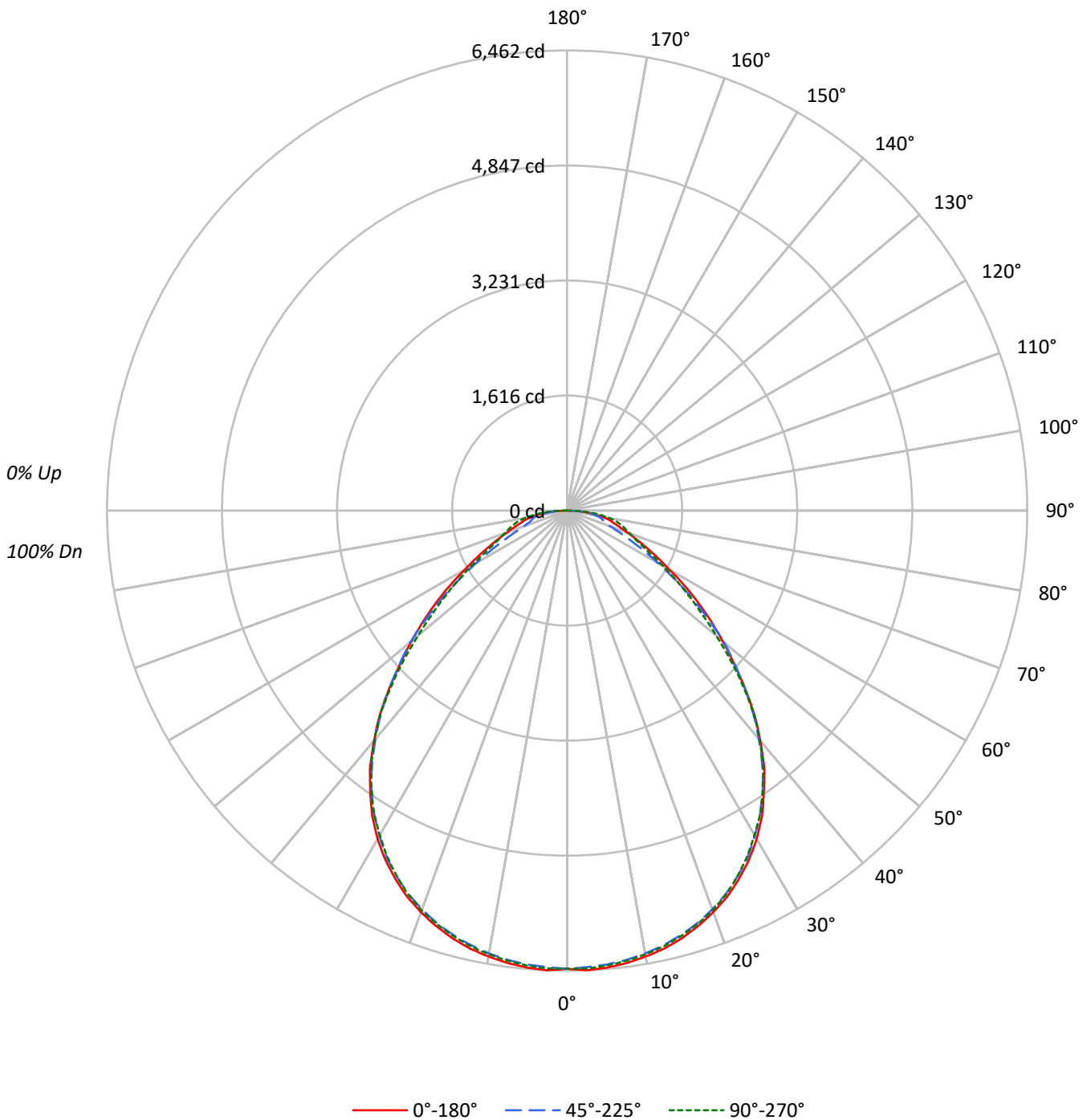
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					56				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45					43				
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8658	8658	8658
5°	8700	8642	8662
10°	8687	8628	8646
15°	8662	8594	8614
20°	8595	8533	8555
25°	8475	8413	8406
30°	8269	8193	8173
35°	7914	7865	7865
40°	7406	7363	7393
45°	6724	6713	6658
50°	5964	6009	5714
55°	5241	5011	4893
60°	4462	3958	4163
65°	3898	3077	3673
70°	3525	2533	3666
75°	3527	2703	4096
80°	3884	3326	4688
85°	4003	3736	5115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.3	4.2
10°-20°	1744.4	11.9
20°-30°	2609.5	17.8
30°-40°	2986.1	20.4
40°-50°	2705.5	18.5
50°-60°	1915.4	13.1
60°-70°	1106.5	7.6
70°-80°	670.8	4.6
80°-90°	282.3	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°	4963.1	33.9
0°-40°	7949.2	54.3
0°-60°	12570.1	85.9
0°-90°	14629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14629.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6435	6435	6435	6435	6435	
5°	6442	6419	6399	6397	6413	612
15°	6219	6194	6170	6170	6184	1754
25°	5709	5686	5667	5662	5662	2626
35°	4818	4797	4788	4781	4788	3006
45°	3534	3526	3528	3502	3499	2722
55°	2234	2159	2136	2073	2086	2002
65°	1224	1098	967	1106	1154	1231
75°	678	608	520	668	788	727
85°	259	233	242	310	331	279
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6434.6	6434.6	6434.6	6434.6	6434.6
2.5°	6462.0	6437.5	6415.9	6418.8	6434.6
5°	6441.8	6418.8	6398.6	6397.2	6413.0
7.5°	6407.3	6387.1	6364.1	6364.1	6377.0
10°	6358.3	6338.1	6315.1	6313.6	6328.0
12.5°	6300.7	6274.7	6250.3	6250.3	6266.1
15°	6218.6	6194.1	6169.6	6169.6	6184.0
17.5°	6117.7	6096.1	6076.0	6077.4	6088.9
20°	6002.5	5980.9	5959.3	5962.2	5975.1
22.5°	5870.0	5844.0	5826.8	5825.3	5834.0
25°	5708.6	5685.6	5666.9	5662.5	5662.5
27.5°	5528.6	5504.1	5491.1	5471.0	5476.7
30°	5322.6	5296.7	5273.6	5262.1	5260.6
32.5°	5090.7	5064.7	5044.6	5043.1	5048.9
35°	4818.4	4796.8	4788.2	4781.0	4788.2
37.5°	4549.0	4508.7	4501.5	4500.1	4518.8
40°	4216.3	4201.9	4191.8	4184.6	4209.1
42.5°	3896.5	3867.7	3870.6	3843.2	3886.4
45°	3533.5	3526.3	3527.7	3501.8	3498.9
47.5°	3173.4	3171.9	3193.5	3121.5	3117.2
50°	2849.3	2834.9	2870.9	2760.0	2729.7
52.5°	2539.6	2499.2	2487.7	2386.9	2386.9
55°	2234.2	2159.3	2136.2	2072.9	2085.8
57.5°	1944.7	1838.1	1790.5	1789.1	1810.7
60°	1658.0	1537.0	1470.7	1522.6	1547.1
62.5°	1430.4	1297.9	1197.0	1295.0	1318.0
65°	1224.4	1097.6	966.6	1106.3	1153.8
67.5°	1047.2	942.1	777.9	960.8	1024.2
70°	896.0	802.3	643.9	847.0	932.0
72.5°	776.4	698.6	560.3	756.3	858.5
75°	678.5	607.9	520.0	668.4	787.9
77.5°	600.7	517.1	486.9	584.8	707.3
80°	501.3	424.9	429.3	502.7	605.0
82.5°	386.0	328.4	345.7	416.3	475.4
85°	259.3	233.4	242.0	309.7	331.3
87.5°	128.2	123.9	132.5	181.5	181.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)