

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: P475864

Luminaire Tested: **24GR-LD5-150-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475864
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-FGW080-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13062.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

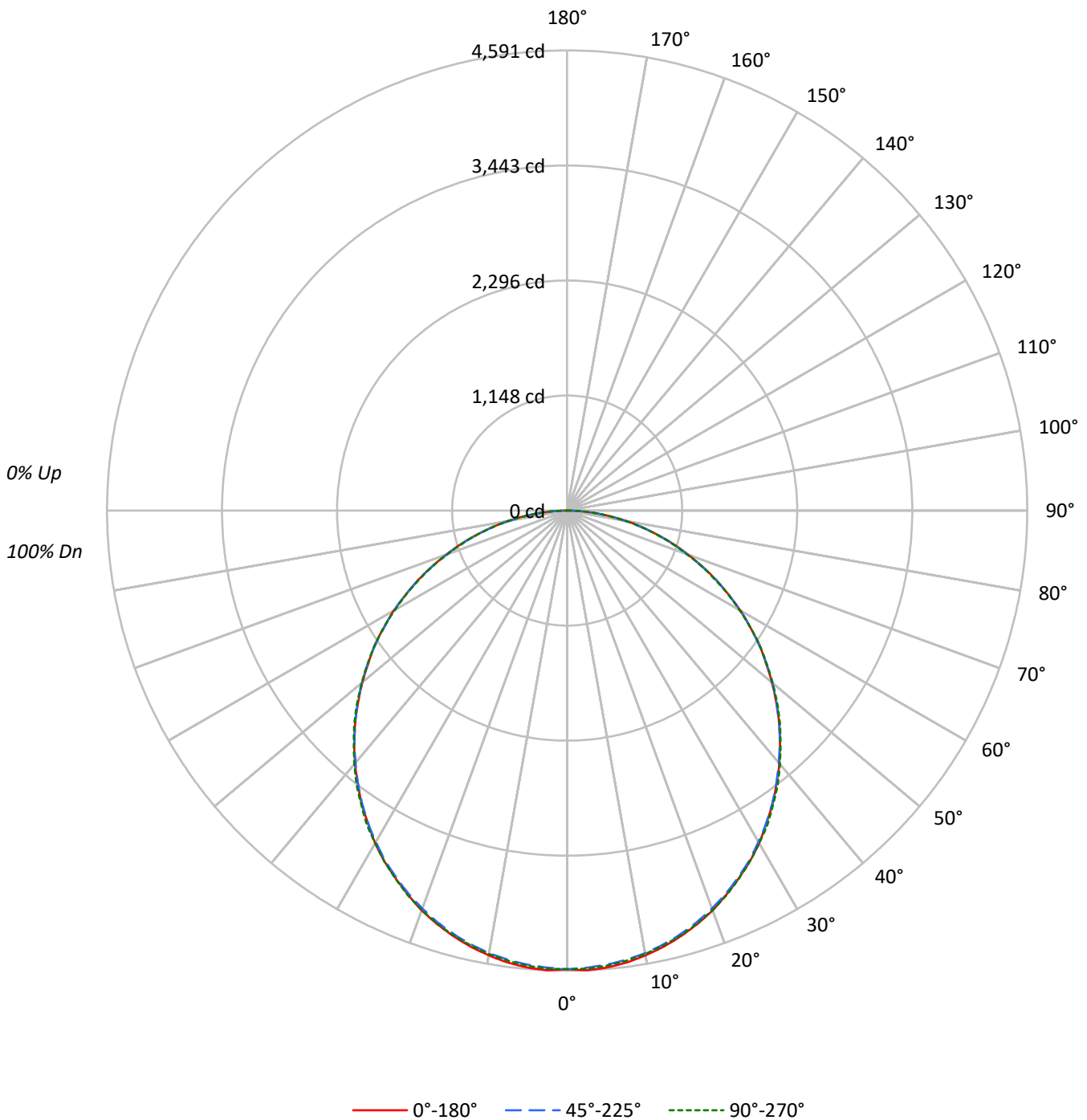
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6156	6156	6156
5°	6179	6141	6155
10°	6156	6126	6138
15°	6122	6093	6109
20°	6077	6049	6073
25°	6011	5993	6015
30°	5953	5930	5953
35°	5869	5859	5881
40°	5785	5769	5800
45°	5690	5690	5716
50°	5582	5597	5597
55°	5503	5482	5500
60°	5378	5374	5338
65°	5224	5219	5186
70°	5042	5030	5001
75°	4849	4834	4841
80°	4627	4536	4558
85°	4108	4108	4153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	3.3
10°-20°	1235.9	9.5
20°-30°	1863.3	14.3
30°-40°	2233.0	17.1
40°-50°	2307.0	17.7
50°-60°	2089.2	16.0
60°-70°	1618.4	12.4
70°-80°	981.5	7.5
80°-90°	301.4	2.3
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°	3531.9	27.0
0°-40°	5764.8	44.1
0°-60°	10161.1	77.8
0°-90°	13062.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13062.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4575	4557	4547	4547	4557	435
15°	4395	4382	4374	4377	4386	1240
25°	4049	4040	4037	4046	4052	1867
35°	3573	3560	3567	3573	3580	2234
45°	2990	2985	2990	2995	3004	2305
55°	2346	2333	2337	2340	2344	2090
65°	1641	1632	1639	1635	1629	1622
75°	933	933	930	921	931	989
85°	266	270	266	262	269	306
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4575.2	4575.2	4575.2	4575.2	4575.2
2.5°	4591.4	4575.2	4563.4	4563.4	4573.7
5°	4575.2	4557.4	4547.1	4547.1	4557.4
7.5°	4548.6	4529.4	4520.5	4520.5	4529.4
10°	4505.7	4490.9	4483.5	4483.5	4492.4
12.5°	4455.4	4442.1	4433.3	4434.7	4443.6
15°	4394.8	4381.5	4374.1	4377.1	4386.0
17.5°	4323.9	4310.6	4304.7	4309.1	4319.4
20°	4244.0	4227.8	4224.8	4229.3	4241.1
22.5°	4148.0	4137.6	4136.1	4143.5	4153.9
25°	4048.9	4040.1	4037.1	4046.0	4051.9
27.5°	3946.9	3930.7	3936.6	3938.1	3946.9
30°	3831.6	3816.8	3816.8	3822.7	3831.6
32.5°	3698.6	3689.7	3697.1	3704.5	3717.8
35°	3572.9	3559.6	3567.0	3572.9	3580.3
37.5°	3431.0	3428.1	3429.5	3438.4	3450.2
40°	3293.5	3284.7	3284.7	3296.5	3302.4
42.5°	3142.8	3135.4	3141.3	3147.2	3150.1
45°	2990.5	2984.6	2990.5	2994.9	3003.8
47.5°	2827.9	2829.4	2830.8	2833.8	2842.7
50°	2666.8	2672.7	2674.1	2680.1	2674.1
52.5°	2499.7	2501.2	2507.1	2508.6	2510.1
55°	2346.0	2332.7	2337.1	2340.1	2344.5
57.5°	2165.6	2161.2	2161.2	2165.6	2168.6
60°	1998.6	1989.7	1997.1	1988.2	1983.8
62.5°	1812.3	1815.3	1818.2	1816.8	1809.4
65°	1640.9	1632.0	1639.4	1634.9	1629.0
67.5°	1460.5	1453.1	1456.1	1454.6	1453.1
70°	1281.6	1281.6	1278.7	1271.3	1271.3
72.5°	1113.1	1104.3	1107.2	1098.3	1098.3
75°	932.8	932.8	929.8	920.9	931.3
77.5°	764.3	759.8	756.9	750.9	750.9
80°	597.2	586.9	585.4	585.4	588.3
82.5°	433.1	425.7	422.8	422.8	424.3
85°	266.1	270.5	266.1	261.6	269.0
87.5°	125.7	119.7	119.7	124.2	127.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)