

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: P475744

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475744
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14907.7 lumens
Efficiency: N/A
Efficacy: 144.2 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

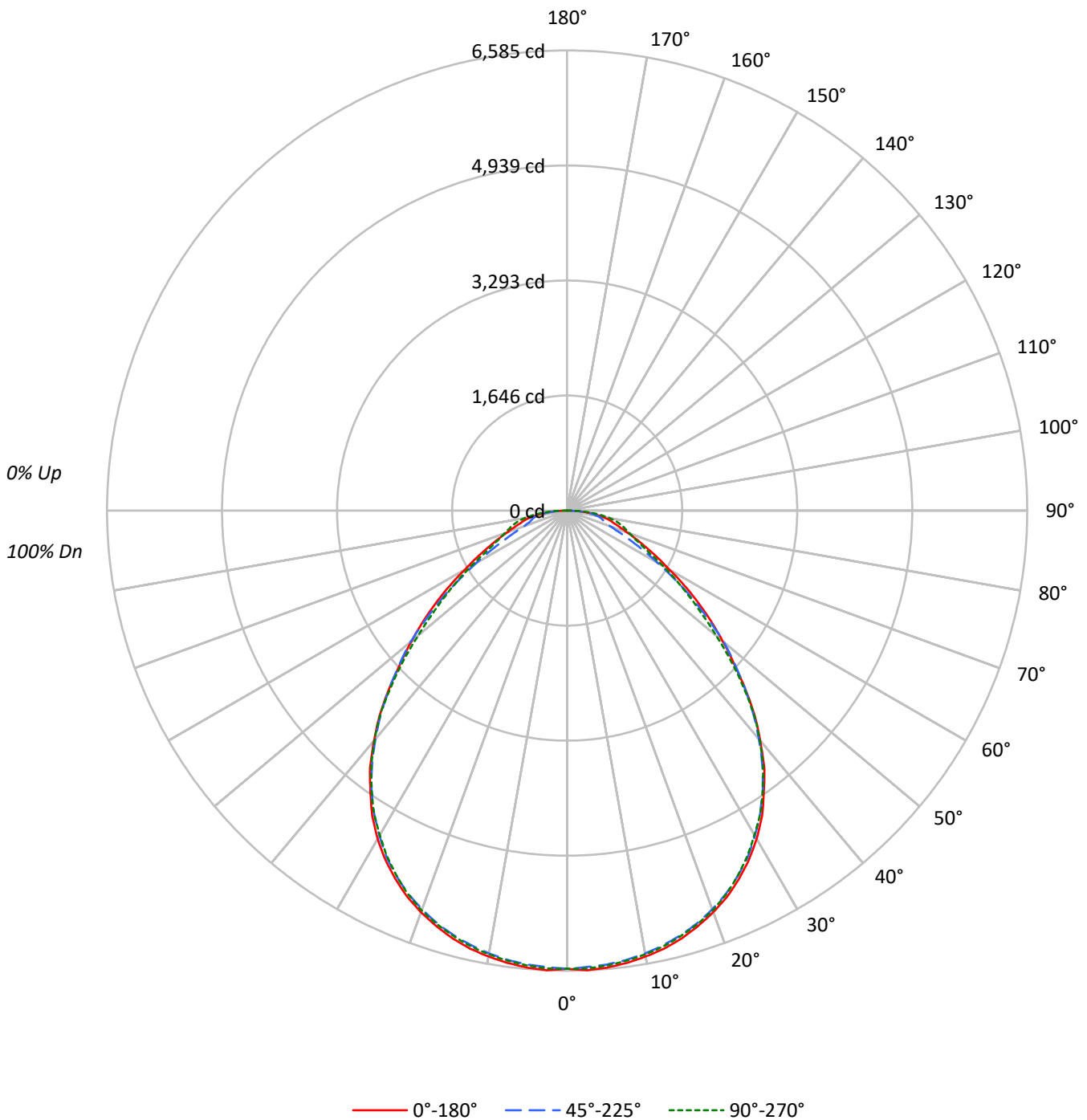
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8822	8822	8822
5°	8866	8806	8826
10°	8852	8792	8810
15°	8827	8757	8778
20°	8758	8695	8718
25°	8636	8573	8566
30°	8426	8349	8328
35°	8065	8014	8014
40°	7546	7502	7533
45°	6851	6840	6784
50°	6077	6123	5822
55°	5340	5106	4986
60°	4546	4033	4242
65°	3972	3136	3743
70°	3592	2581	3736
75°	3594	2755	4174
80°	3958	3389	4777
85°	4079	3807	5212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	4.2
10°-20°	1777.5	11.9
20°-30°	2659.0	17.8
30°-40°	3042.8	20.4
40°-50°	2756.9	18.5
50°-60°	1951.8	13.1
60°-70°	1127.5	7.6
70°-80°	683.5	4.6
80°-90°	287.7	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°	5057.4	33.9
0°-40°	8100.2	54.3
0°-60°	12808.9	85.9
0°-90°	14907.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14907.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6557	6557	6557	6557	6557	
5°	6564	6541	6520	6519	6535	624
15°	6337	6312	6287	6287	6302	1787
25°	5817	5794	5774	5770	5770	2675
35°	4910	4888	4879	4872	4879	3063
45°	3601	3593	3595	3568	3565	2774
55°	2277	2200	2177	2112	2125	2040
65°	1248	1118	985	1127	1176	1254
75°	691	619	530	681	803	741
85°	264	238	247	316	338	284
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6556.9	6556.9	6556.9	6556.9	6556.9
2.5°	6584.8	6559.8	6537.8	6540.7	6556.9
5°	6564.2	6540.7	6520.2	6518.7	6534.9
7.5°	6529.0	6508.5	6485.0	6485.0	6498.2
10°	6479.1	6458.5	6435.1	6433.6	6448.3
12.5°	6420.4	6394.0	6369.0	6369.0	6385.2
15°	6336.7	6311.8	6286.8	6286.8	6301.5
17.5°	6234.0	6211.9	6191.4	6192.9	6204.6
20°	6116.5	6094.5	6072.5	6075.4	6088.6
22.5°	5981.5	5955.1	5937.5	5936.0	5944.8
25°	5817.1	5793.6	5774.5	5770.1	5770.1
27.5°	5633.6	5608.7	5595.5	5574.9	5580.8
30°	5423.7	5397.3	5373.8	5362.1	5360.6
32.5°	5187.4	5161.0	5140.4	5138.9	5144.8
35°	4910.0	4887.9	4879.1	4871.8	4879.1
37.5°	4635.5	4594.4	4587.0	4585.6	4604.7
40°	4296.4	4281.7	4271.4	4264.1	4289.1
42.5°	3970.5	3941.2	3944.1	3916.2	3960.3
45°	3600.6	3593.3	3594.8	3568.3	3565.4
47.5°	3233.7	3232.2	3254.2	3180.8	3176.4
50°	2903.4	2888.7	2925.4	2812.4	2781.6
52.5°	2587.8	2546.7	2535.0	2432.2	2432.2
55°	2276.6	2200.3	2176.8	2112.2	2125.4
57.5°	1981.6	1873.0	1824.5	1823.1	1845.1
60°	1689.5	1566.2	1498.7	1551.5	1576.5
62.5°	1457.6	1322.5	1219.8	1319.6	1343.1
65°	1247.7	1118.5	984.9	1127.3	1175.7
67.5°	1067.1	960.0	792.6	979.1	1043.6
70°	913.0	817.6	656.1	863.1	949.7
72.5°	791.2	711.9	571.0	770.6	874.8
75°	691.4	619.4	529.9	681.1	802.9
77.5°	612.1	527.0	496.1	595.9	720.7
80°	510.8	433.0	437.4	512.3	616.5
82.5°	393.4	334.7	352.3	424.2	484.4
85°	264.2	237.8	246.6	315.6	337.6
87.5°	130.6	126.2	135.0	184.9	184.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)