

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: P475758

Luminaire Tested: **24GR-LD5-130-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475758
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12853.5 lumens
Efficiency: N/A
Efficacy: 144.9 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

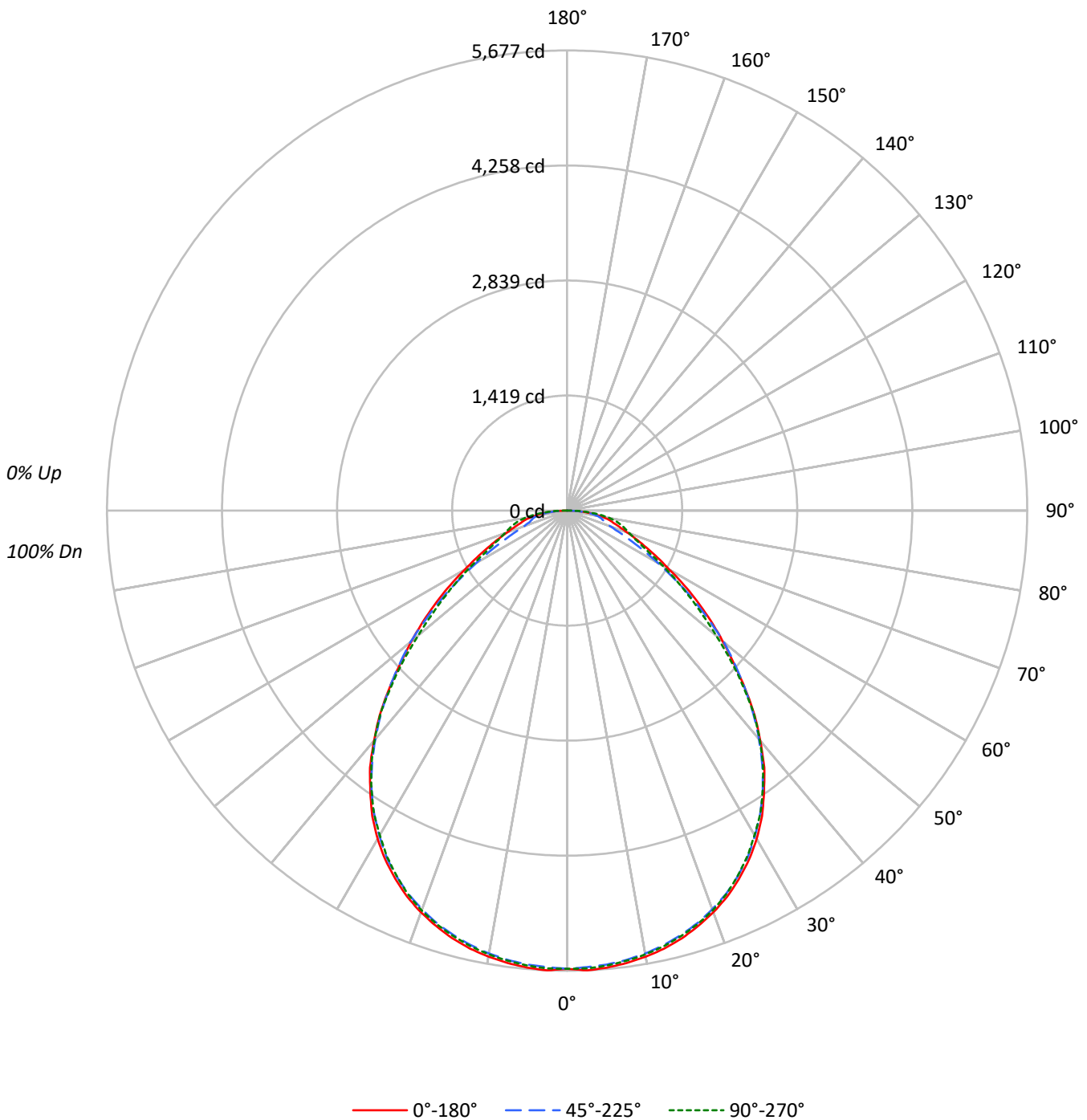
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7607	7607	7607
5°	7644	7593	7610
10°	7632	7580	7596
15°	7610	7551	7568
20°	7551	7497	7517
25°	7446	7391	7386
30°	7265	7198	7181
35°	6954	6910	6910
40°	6506	6469	6495
45°	5907	5898	5849
50°	5240	5280	5020
55°	4605	4403	4299
60°	3920	3477	3658
65°	3425	2704	3227
70°	3097	2225	3221
75°	3099	2375	3599
80°	3412	2922	4118
85°	3517	3282	4494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.3	4.2
10°-20°	1532.6	11.9
20°-30°	2292.6	17.8
30°-40°	2623.5	20.4
40°-50°	2377.0	18.5
50°-60°	1682.9	13.1
60°-70°	972.2	7.6
70°-80°	589.4	4.6
80°-90°	248.1	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°	4360.5	33.9
0°-40°	6984.0	54.3
0°-60°	11043.9	85.9
0°-90°	12853.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12853.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5653	5653	5653	5653	5653	
5°	5660	5640	5622	5620	5634	538
15°	5464	5442	5420	5420	5433	1541
25°	5016	4995	4979	4975	4975	2307
35°	4233	4214	4207	4200	4207	2641
45°	3104	3098	3099	3077	3074	2392
55°	1963	1897	1877	1821	1833	1759
65°	1076	964	849	972	1014	1081
75°	596	534	457	587	692	639
85°	228	205	213	272	291	245
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5653.4	5653.4	5653.4	5653.4	5653.4
2.5°	5677.4	5655.9	5636.9	5639.5	5653.4
5°	5659.7	5639.5	5621.7	5620.5	5634.4
7.5°	5629.3	5611.6	5591.4	5591.4	5602.8
10°	5586.3	5568.6	5548.3	5547.1	5559.7
12.5°	5535.7	5512.9	5491.4	5491.4	5505.3
15°	5463.5	5442.0	5420.5	5420.5	5433.2
17.5°	5374.9	5356.0	5338.2	5339.5	5349.6
20°	5273.7	5254.7	5235.7	5238.3	5249.7
22.5°	5157.3	5134.5	5119.3	5118.0	5125.6
25°	5015.5	4995.3	4978.8	4975.0	4975.0
27.5°	4857.3	4835.8	4824.4	4806.7	4811.8
30°	4676.3	4653.6	4633.3	4623.2	4621.9
32.5°	4472.6	4449.8	4432.1	4430.8	4435.9
35°	4233.4	4214.4	4206.8	4200.5	4206.8
37.5°	3996.7	3961.3	3955.0	3953.7	3970.1
40°	3704.4	3691.7	3682.9	3676.5	3698.0
42.5°	3423.4	3398.1	3400.6	3376.6	3414.6
45°	3104.5	3098.2	3099.4	3076.6	3074.1
47.5°	2788.1	2786.8	2805.8	2742.5	2738.7
50°	2503.3	2490.7	2522.3	2424.9	2398.3
52.5°	2231.2	2195.8	2185.7	2097.1	2097.1
55°	1962.9	1897.1	1876.9	1821.2	1832.6
57.5°	1708.5	1614.9	1573.1	1571.9	1590.8
60°	1456.7	1350.4	1292.2	1337.7	1359.2
62.5°	1256.7	1140.3	1051.7	1137.8	1158.0
65°	1075.7	964.4	849.2	972.0	1013.7
67.5°	920.1	827.7	683.4	844.1	899.8
70°	787.2	704.9	565.7	744.2	818.8
72.5°	682.2	613.8	492.3	664.4	754.3
75°	596.1	534.1	456.9	587.2	692.3
77.5°	527.7	454.3	427.8	513.8	621.4
80°	440.4	373.3	377.1	441.7	531.5
82.5°	339.2	288.6	303.7	365.8	417.6
85°	227.8	205.0	212.6	272.1	291.1
87.5°	112.6	108.8	116.4	159.5	159.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)