

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: P475595

Luminaire Tested: **24GR-LD5-180-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475595
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-180-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: 17433.1 lumens
Efficiency: N/A
Efficacy: 138.0 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

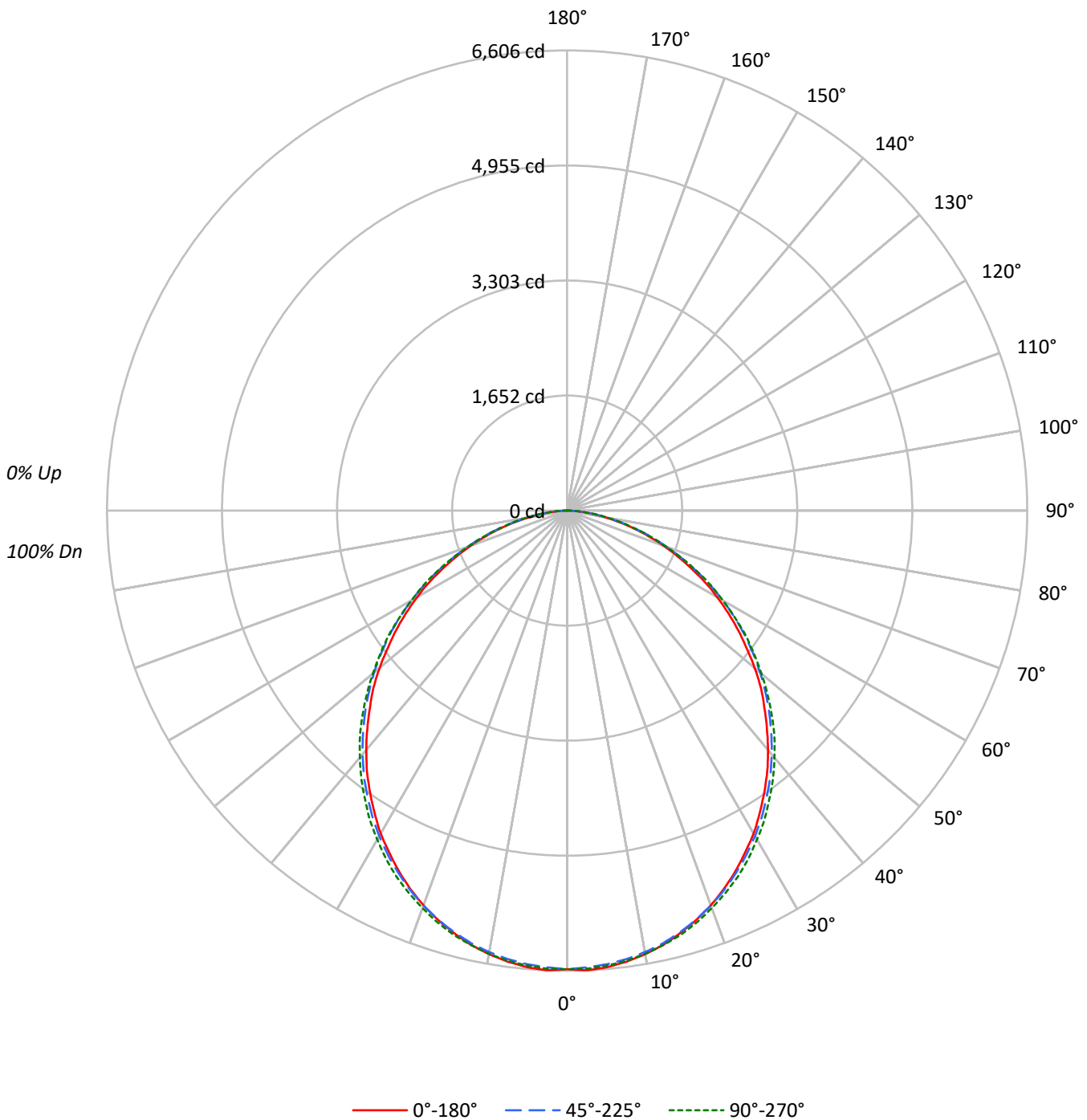
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8858	8858	8858
5°	8886	8829	8855
10°	8834	8792	8829
15°	8747	8728	8781
20°	8634	8637	8695
25°	8484	8518	8608
30°	8319	8382	8469
35°	8105	8215	8311
40°	7882	8025	8130
45°	7622	7808	7907
50°	7356	7571	7623
55°	7038	7291	7344
60°	6702	6930	6938
65°	6261	6503	6538
70°	5801	5964	5944
75°	5153	5338	5353
80°	4311	4464	4633
85°	3234	3478	3600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.0	3.6
10°-20°	1769.8	10.2
20°-30°	2645.6	15.2
30°-40°	3125.6	17.9
40°-50°	3155.3	18.1
50°-60°	2753.6	15.8
60°-70°	2007.5	11.5
70°-80°	1082.6	6.2
80°-90°	271.0	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°	5037.4	28.9
0°-40°	8163.1	46.8
0°-60°	14072.0	80.7
0°-90°	17433.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17433.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6584	6584	6584	6584	6584	
5°	6579	6555	6537	6543	6556	624
15°	6279	6266	6266	6280	6304	1771
25°	5715	5716	5738	5774	5798	2631
35°	4934	4948	5002	5050	5060	3087
45°	4005	4034	4103	4155	4156	3092
55°	3000	3037	3108	3120	3131	2681
65°	1967	2009	2043	2047	2054	1954
75°	991	1001	1027	1031	1030	1053
85°	210	214	225	236	233	255
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6583.7	6583.7	6583.7	6583.7	6583.7
2.5°	6605.5	6581.7	6563.0	6566.9	6582.7
5°	6578.8	6555.1	6537.3	6543.2	6556.0
7.5°	6531.3	6509.6	6495.8	6501.7	6518.5
10°	6466.1	6448.3	6435.5	6444.4	6462.2
12.5°	6383.1	6365.3	6360.4	6373.2	6389.0
15°	6279.3	6266.5	6265.5	6280.3	6304.0
17.5°	6162.7	6149.9	6156.8	6176.6	6197.3
20°	6030.3	6018.4	6032.3	6059.0	6072.8
22.5°	5879.1	5869.2	5893.9	5921.6	5939.4
25°	5715.0	5716.0	5737.8	5774.3	5798.1
27.5°	5533.2	5540.1	5572.7	5608.3	5632.0
30°	5354.3	5348.4	5394.8	5433.4	5451.2
32.5°	5146.8	5149.8	5204.1	5243.6	5270.3
35°	4934.3	4948.2	5001.5	5049.9	5059.8
37.5°	4719.9	4729.8	4794.0	4841.4	4854.3
40°	4487.6	4505.4	4568.7	4613.1	4629.0
42.5°	4245.5	4268.2	4336.4	4382.9	4403.6
45°	4005.4	4034.0	4103.2	4154.6	4155.6
47.5°	3773.1	3793.9	3861.1	3906.5	3901.6
50°	3514.2	3544.8	3617.0	3644.7	3641.7
52.5°	3249.4	3295.8	3362.0	3383.8	3380.8
55°	3000.3	3036.9	3108.0	3119.9	3130.8
57.5°	2742.4	2774.0	2851.1	2856.0	2854.1
60°	2490.4	2519.0	2575.4	2589.2	2578.3
62.5°	2236.4	2265.1	2315.5	2329.3	2327.3
65°	1966.6	2009.1	2042.7	2046.7	2053.6
67.5°	1715.6	1742.3	1774.9	1780.8	1775.9
70°	1474.5	1497.2	1516.0	1519.9	1511.0
72.5°	1225.4	1246.2	1272.9	1277.8	1267.9
75°	991.2	1001.1	1026.8	1030.7	1029.8
77.5°	763.9	771.8	790.6	805.4	807.4
80°	556.4	559.3	576.1	587.0	597.9
82.5°	368.6	376.5	389.4	400.2	410.1
85°	209.5	214.4	225.3	236.2	233.2
87.5°	81.0	91.9	92.9	103.8	107.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)