

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: P257266

Luminaire Tested: **24GR-LD5-180-F125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-180-F125-UNV-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18068.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

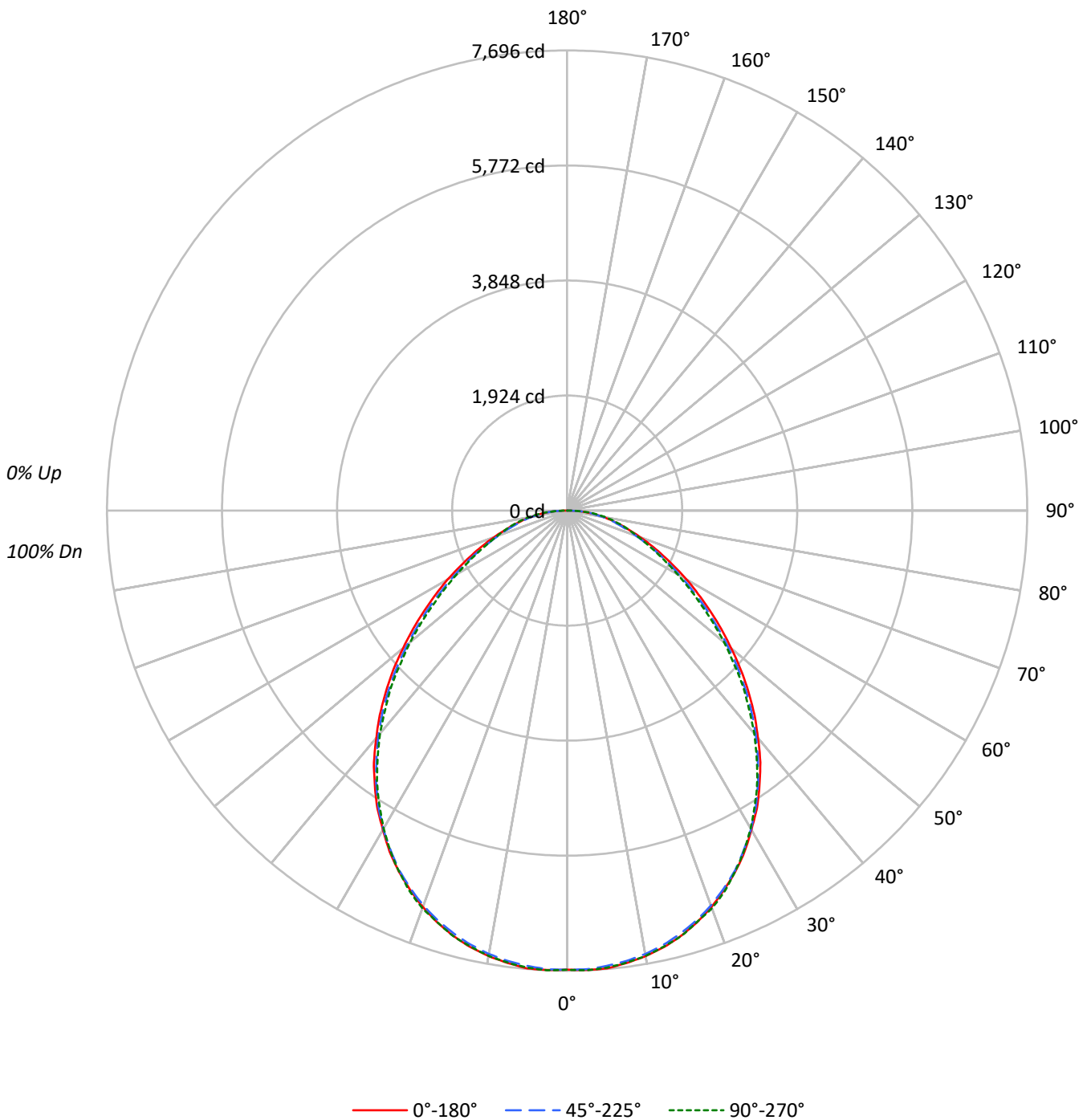
Input Watts (W): 144.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11761	11761	11761
5°	11815	11750	11798
10°	11767	11710	11763
15°	11675	11612	11684
20°	11503	11457	11540
25°	11254	11226	11249
30°	10898	10879	10854
35°	10487	10408	10366
40°	9927	9814	9735
45°	9286	9115	9005
50°	8533	8304	8163
55°	7783	7496	7278
60°	7068	6687	6514
65°	6367	6008	5906
70°	5830	5451	5603
75°	5448	5198	5582
80°	5406	5305	5828
85°	5509	5558	6353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.7	4.0
10°-20°	2066.1	11.4
20°-30°	3052.3	16.9
30°-40°	3470.2	19.2
40°-50°	3240.7	17.9
50°-60°	2520.2	13.9
60°-70°	1672.2	9.3
70°-80°	967.7	5.4
80°-90°	351.9	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°	5845.2	32.4
0°-40°	9315.4	51.6
0°-60°	15076.3	83.4
0°-90°	18068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7679	7679	7679	7679	7679	
5°	7685	7645	7642	7656	7673	729
15°	7363	7326	7323	7320	7368	2074
25°	6659	6631	6642	6628	6657	3062
35°	5609	5581	5566	5527	5544	3502
45°	4287	4253	4208	4154	4157	3303
55°	2914	2872	2807	2734	2725	2614
65°	1757	1703	1658	1627	1630	1756
75°	921	898	878	918	943	985
85°	314	308	316	359	362	341
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7678.9	7678.9	7678.9	7678.9	7678.9
2.5°	7690.2	7667.7	7678.9	7670.5	7695.9
5°	7684.6	7645.0	7642.2	7656.3	7673.3
7.5°	7630.9	7588.6	7597.0	7597.0	7625.3
10°	7565.9	7523.6	7529.2	7532.1	7563.1
12.5°	7478.4	7436.1	7438.9	7436.1	7467.1
15°	7362.6	7325.9	7323.0	7320.2	7368.3
17.5°	7221.4	7170.5	7187.5	7190.4	7215.8
20°	7057.6	7018.1	7029.4	7026.6	7080.2
22.5°	6862.8	6834.5	6842.9	6837.3	6888.2
25°	6659.4	6631.2	6642.5	6628.3	6656.6
27.5°	6430.6	6410.9	6399.6	6391.1	6410.9
30°	6162.3	6151.1	6151.1	6114.3	6136.9
32.5°	5908.2	5871.4	5871.4	5857.3	5843.2
35°	5608.8	5580.6	5566.5	5526.9	5543.8
37.5°	5309.4	5244.5	5238.9	5207.7	5207.7
40°	4964.9	4928.2	4908.4	4874.5	4868.9
42.5°	4637.3	4600.6	4566.7	4510.2	4498.9
45°	4287.1	4253.2	4208.0	4154.3	4157.2
47.5°	3939.8	3891.7	3849.3	3784.4	3776.0
50°	3581.0	3547.2	3485.0	3428.5	3425.7
52.5°	3245.0	3191.3	3134.9	3067.1	3067.1
55°	2914.5	2872.1	2807.3	2733.8	2725.4
57.5°	2598.2	2558.7	2485.3	2431.6	2417.5
60°	2307.3	2250.9	2183.1	2137.9	2126.6
62.5°	2016.5	1965.6	1914.8	1869.6	1866.8
65°	1756.7	1703.0	1657.7	1626.7	1629.5
67.5°	1522.2	1477.0	1426.2	1417.7	1420.6
70°	1301.9	1253.9	1217.2	1237.0	1251.1
72.5°	1092.9	1067.5	1042.1	1070.3	1090.1
75°	920.6	898.1	878.3	917.8	943.3
77.5°	762.5	745.6	742.7	776.7	799.3
80°	612.9	593.0	601.5	641.1	660.8
82.5°	466.0	451.9	454.7	502.7	516.8
85°	313.5	307.9	316.3	358.6	361.5
87.5°	166.6	166.6	172.3	197.7	189.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)