

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: P257251

Luminaire Tested: **24GR-LD5-180-F125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257251  
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-L940-CD2-U  
Description: METALUX 2X4 GRLED TROFFER  
WITH F125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15523.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

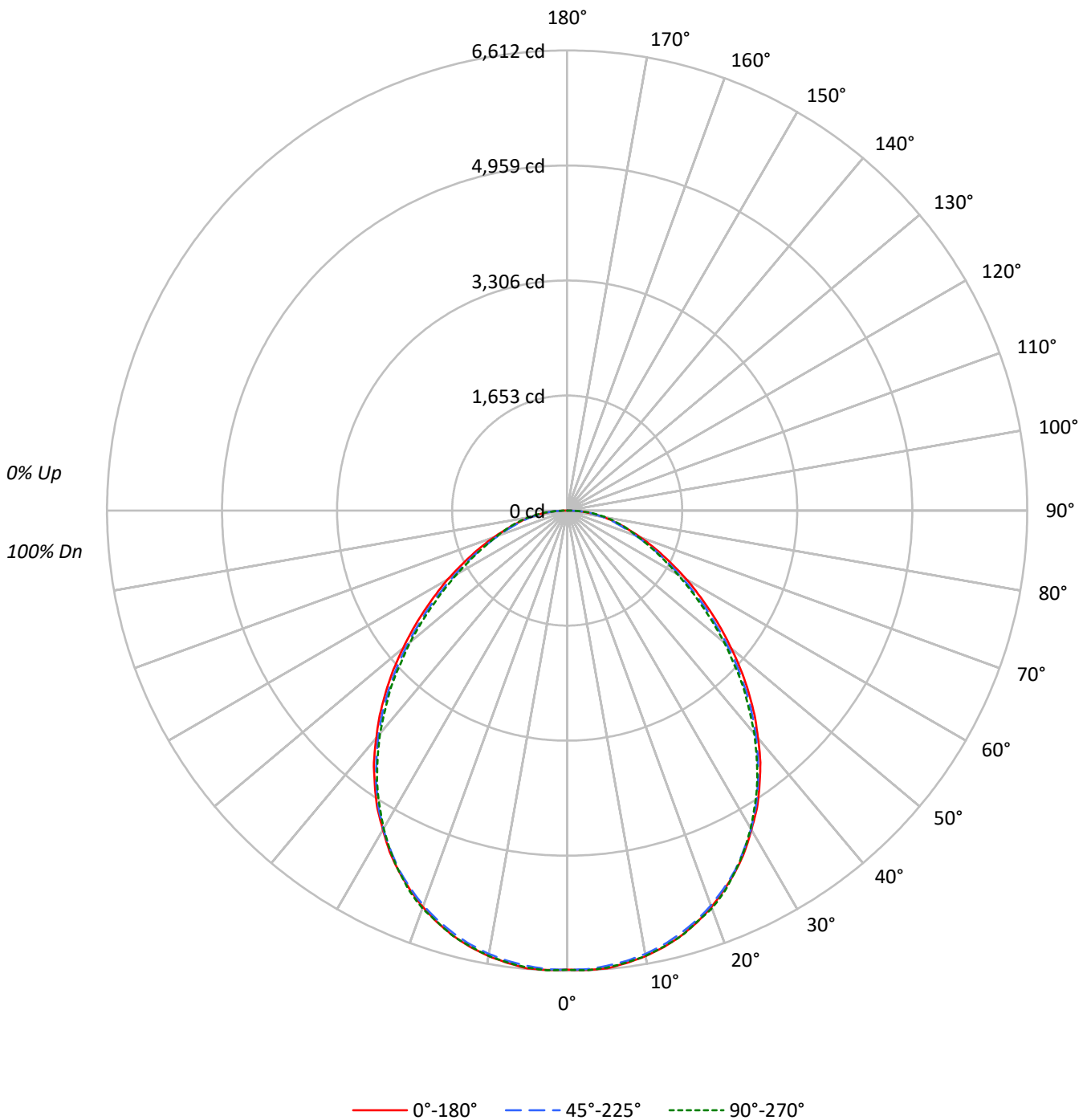
Input Watts (W): 144.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10104	10104	10104
5°	10151	10095	10136
10°	10109	10060	10106
15°	10030	9976	10038
20°	9883	9843	9915
25°	9669	9644	9665
30°	9363	9346	9325
35°	9010	8942	8906
40°	8528	8431	8363
45°	7978	7831	7736
50°	7331	7134	7013
55°	6686	6440	6252
60°	6072	5745	5597
65°	5470	5161	5074
70°	5009	4683	4814
75°	4681	4466	4796
80°	4644	4558	5008
85°	4734	4776	5457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.4	4.0
10°-20°	1775.1	11.4
20°-30°	2622.4	16.9
30°-40°	2981.4	19.2
40°-50°	2784.2	17.9
50°-60°	2165.2	13.9
60°-70°	1436.7	9.3
70°-80°	831.4	5.4
80°-90°	302.3	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°	5021.8	32.4
0°-40°	8003.2	51.6
0°-60°	12952.6	83.4
0°-90°	15523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6597	6597	6597	6597	6597	
5°	6602	6568	6566	6578	6592	626
15°	6326	6294	6292	6289	6330	1782
25°	5721	5697	5707	5695	5719	2631
35°	4819	4794	4782	4748	4763	3008
45°	3683	3654	3615	3569	3572	2838
55°	2504	2468	2412	2349	2341	2245
65°	1509	1463	1424	1398	1400	1508
75°	791	772	755	788	810	846
85°	269	264	272	308	310	293
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6597.2	6597.2	6597.2	6597.2	6597.2
2.5°	6607.0	6587.6	6597.2	6590.0	6611.9
5°	6602.1	6568.2	6565.8	6577.9	6592.4
7.5°	6556.0	6519.7	6526.9	6526.9	6551.1
10°	6500.2	6463.8	6468.7	6471.1	6497.8
12.5°	6425.0	6388.6	6391.0	6388.6	6415.3
15°	6325.6	6294.0	6291.6	6289.1	6330.4
17.5°	6204.2	6160.5	6175.1	6177.6	6199.3
20°	6063.5	6029.5	6039.2	6036.8	6082.9
22.5°	5896.1	5871.8	5879.0	5874.2	5917.9
25°	5721.3	5697.1	5706.8	5694.7	5718.9
27.5°	5524.8	5507.9	5498.2	5490.8	5507.9
30°	5294.3	5284.6	5284.6	5253.1	5272.5
32.5°	5076.0	5044.4	5044.4	5032.3	5020.2
35°	4818.8	4794.5	4782.4	4748.4	4762.9
37.5°	4561.5	4505.7	4500.9	4474.2	4474.2
40°	4265.5	4234.0	4217.0	4187.9	4183.0
42.5°	3984.1	3952.6	3923.4	3874.9	3865.2
45°	3683.2	3654.1	3615.3	3569.2	3571.6
47.5°	3384.8	3343.5	3307.1	3251.3	3244.0
50°	3076.6	3047.5	2994.1	2945.6	2943.2
52.5°	2787.9	2741.8	2693.3	2635.0	2635.0
55°	2504.0	2467.6	2411.8	2348.7	2341.4
57.5°	2232.2	2198.2	2135.2	2089.1	2077.0
60°	1982.3	1933.8	1875.6	1836.8	1827.1
62.5°	1732.4	1688.8	1645.1	1606.2	1603.8
65°	1509.2	1463.1	1424.2	1397.6	1400.0
67.5°	1307.8	1269.0	1225.3	1218.0	1220.4
70°	1118.5	1077.3	1045.8	1062.8	1074.9
72.5°	939.0	917.2	895.3	919.6	936.5
75°	791.0	771.6	754.6	788.5	810.4
77.5°	655.1	640.5	638.1	667.3	686.6
80°	526.5	509.6	516.8	550.7	567.8
82.5°	400.3	388.2	390.6	431.9	444.0
85°	269.4	264.4	271.8	308.1	310.5
87.5°	143.2	143.2	148.0	169.8	162.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)