

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: P475775

Luminaire Tested: **24GR-LD5-180-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475775
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-180-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17504.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

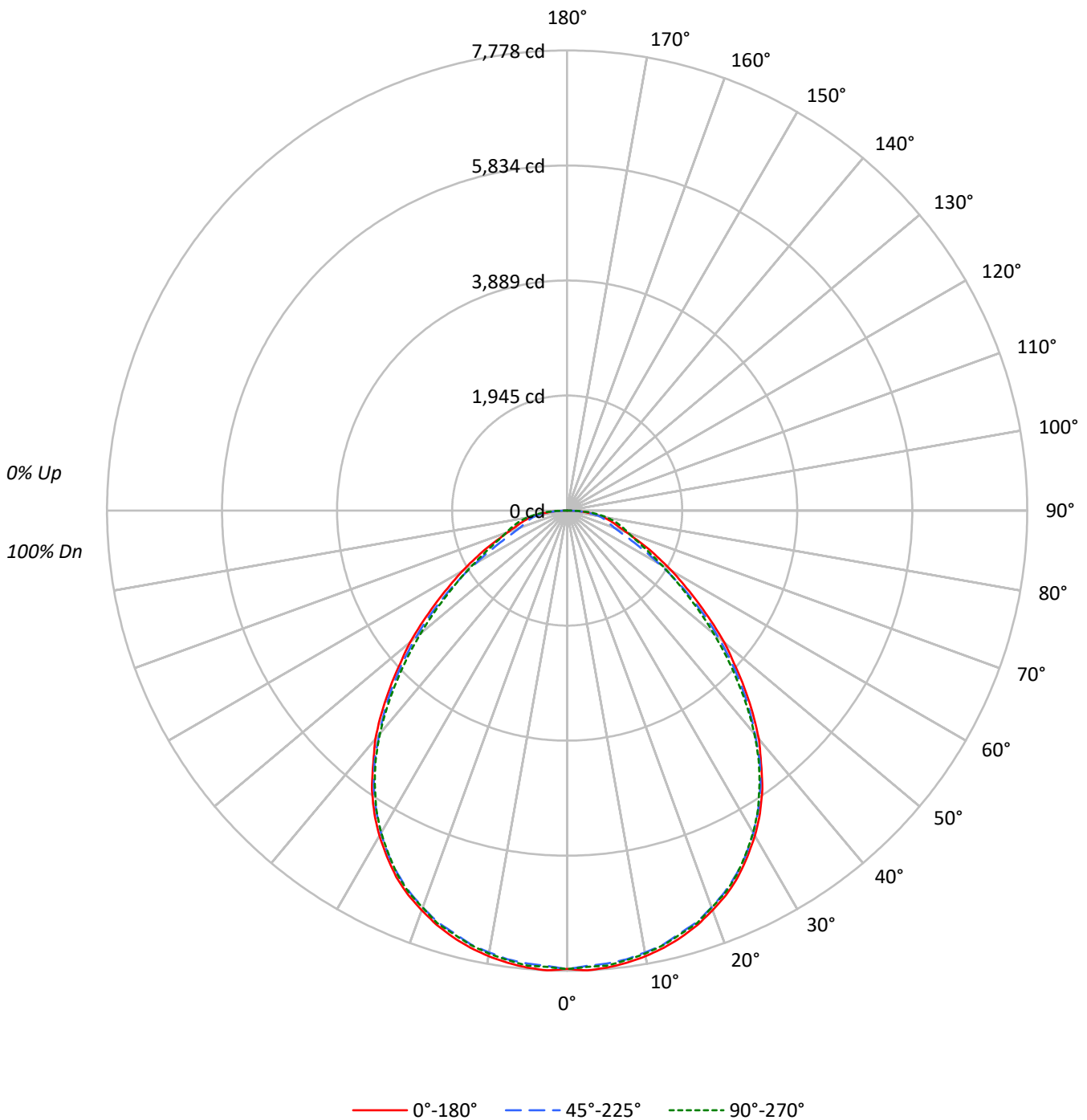
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10424	10424	10424
5°	10473	10382	10426
10°	10450	10360	10388
15°	10399	10297	10321
20°	10292	10220	10225
25°	10144	10062	10077
30°	9863	9774	9769
35°	9449	9355	9309
40°	8854	8680	8644
45°	8060	7898	7747
50°	7257	6999	6771
55°	6296	5955	5776
60°	5498	4800	4967
65°	4758	3815	4416
70°	4196	3345	4312
75°	4213	3637	4717
80°	4616	4320	5340
85°	4866	4705	6121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.2	4.2
10°-20°	2092.2	12.0
20°-30°	3119.3	17.8
30°-40°	3546.0	20.3
40°-50°	3195.7	18.3
50°-60°	2301.9	13.2
60°-70°	1338.9	7.6
70°-80°	819.2	4.7
80°-90°	358.6	2.0
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°	5943.7	34.0
0°-40°	9489.7	54.2
0°-60°	14987.3	85.6
0°-90°	17504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7747	7747	7747	7747	7747	
5°	7754	7701	7687	7702	7720	737
15°	7465	7424	7392	7404	7410	2104
25°	6833	6792	6778	6767	6788	3139
35°	5752	5713	5695	5662	5668	3579
45°	4236	4187	4151	4087	4071	3267
55°	2684	2620	2539	2513	2462	2420
65°	1494	1344	1198	1292	1387	1495
75°	810	734	700	797	907	863
85°	315	312	305	414	396	334
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7747.4	7747.4	7747.4	7747.4	7747.4
2.5°	7778.5	7737.0	7702.3	7704.1	7721.4
5°	7754.3	7700.6	7686.8	7702.3	7719.7
7.5°	7711.0	7660.8	7652.1	7643.5	7664.2
10°	7648.7	7614.0	7582.9	7591.5	7603.6
12.5°	7565.5	7536.1	7513.6	7496.3	7522.2
15°	7465.1	7423.5	7392.4	7404.5	7409.7
17.5°	7338.7	7298.9	7290.2	7283.3	7309.3
20°	7188.0	7163.8	7137.8	7144.7	7141.3
22.5°	7028.7	6992.4	6971.6	6961.2	6988.9
25°	6833.1	6791.5	6777.6	6767.3	6788.0
27.5°	6594.1	6571.6	6552.5	6538.7	6540.4
30°	6348.2	6325.7	6291.1	6280.7	6287.6
32.5°	6065.9	6040.0	6008.8	5977.6	6000.1
35°	5752.5	5712.7	5695.4	5662.5	5667.7
37.5°	5381.9	5364.6	5349.0	5305.7	5319.6
40°	5040.8	4994.1	4942.1	4916.1	4921.3
42.5°	4646.0	4597.5	4555.9	4519.6	4502.3
45°	4235.6	4187.1	4150.7	4086.7	4071.1
47.5°	3826.9	3781.9	3742.1	3691.9	3646.8
50°	3466.7	3383.6	3343.8	3291.8	3234.7
52.5°	3061.5	3013.1	2935.1	2891.8	2839.9
55°	2684.0	2620.0	2538.6	2512.6	2462.4
57.5°	2344.6	2275.4	2155.9	2145.5	2143.8
60°	2043.3	1949.8	1783.6	1795.7	1845.9
62.5°	1750.7	1617.4	1466.7	1520.4	1594.8
65°	1494.4	1343.8	1198.3	1291.8	1387.0
67.5°	1248.5	1113.4	990.5	1115.2	1215.6
70°	1066.7	954.1	850.2	983.6	1096.1
72.5°	914.3	827.7	760.2	881.4	1002.6
75°	810.4	734.2	699.6	796.6	907.4
77.5°	713.4	645.9	635.5	722.1	803.5
80°	595.7	548.9	557.6	645.9	689.2
82.5°	453.7	439.8	441.6	552.4	561.1
85°	315.2	311.7	304.8	413.9	396.5
87.5°	159.3	162.8	161.0	235.5	211.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)