

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: P476037

Luminaire Tested: **22GR-LD5-20-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476037  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-A-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1983.7 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

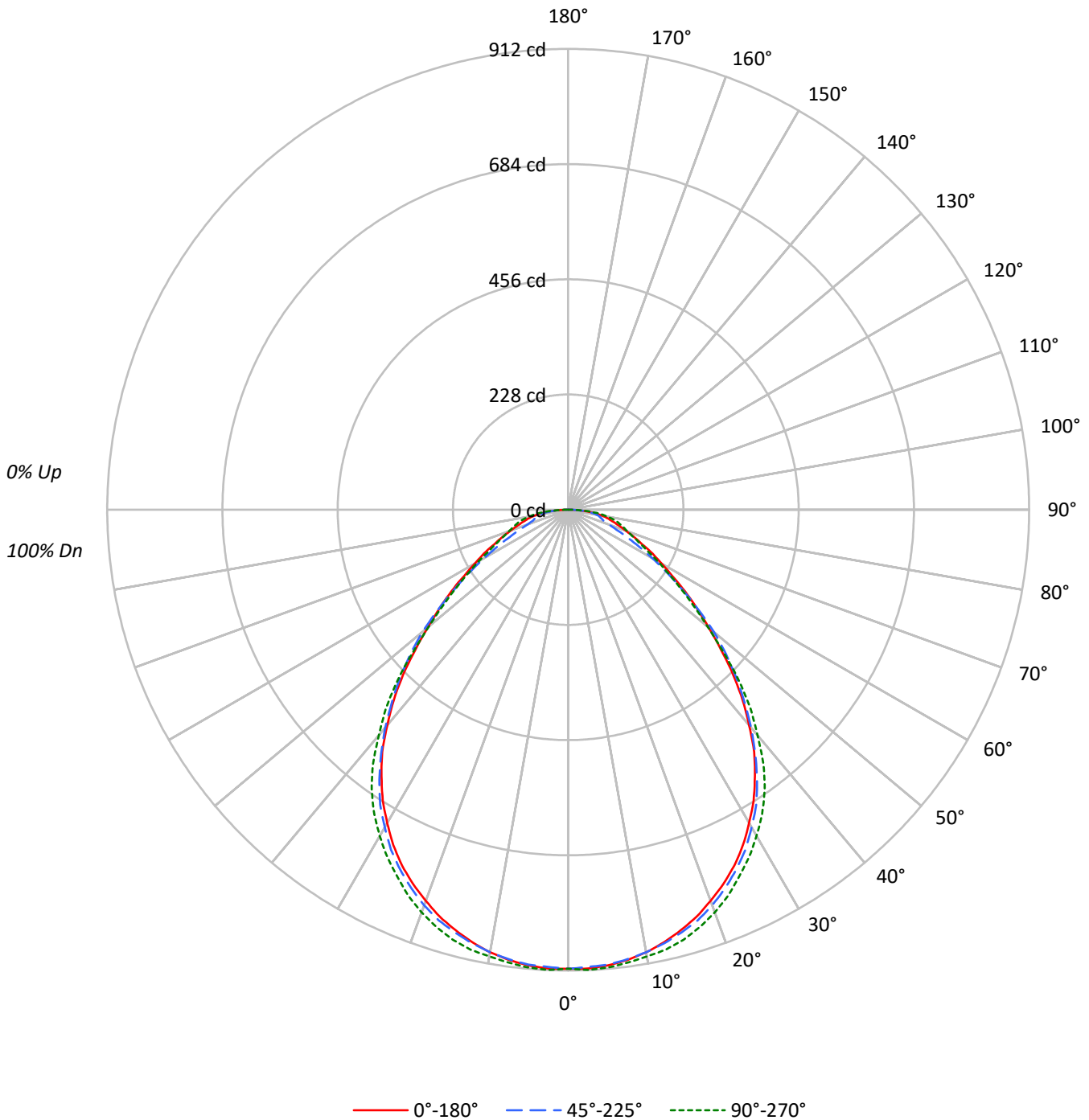
Input Watts (W): 15.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2444	2444	2444
5°	2445	2442	2457
10°	2431	2429	2453
15°	2400	2413	2455
20°	2358	2386	2428
25°	2308	2334	2377
30°	2224	2255	2316
35°	2116	2140	2226
40°	1956	1977	2046
45°	1757	1788	1816
50°	1519	1573	1503
55°	1325	1291	1273
60°	1148	1033	1103
65°	1026	811	991
70°	951	672	977
75°	950	710	1084
80°	1052	894	1223
85°	1096	969	1383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	4.3
10°-20°	244.8	12.3
20°-30°	362.1	18.3
30°-40°	408.6	20.6
40°-50°	360.2	18.2
50°-60°	247.1	12.5
60°-70°	145.8	7.4
70°-80°	91.0	4.6
80°-90°	37.9	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°	692.9	34.9
0°-40°	1101.6	55.5
0°-60°	1708.9	86.1
0°-90°	1983.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	905	903	904	907	909	86
15°	861	862	866	877	881	243
25°	777	780	786	796	800	357
35°	644	649	651	667	678	401
45°	462	464	470	473	477	355
55°	282	276	275	266	271	253
65°	161	142	127	147	156	162
75°	91	82	68	96	104	98
85°	36	33	31	41	45	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	908.4	908.4	908.4	908.4	908.4
2.5°	908.9	906.6	905.7	909.4	911.7
5°	905.2	903.4	903.9	907.1	909.4
7.5°	898.7	897.4	897.4	901.9	904.2
10°	889.5	889.1	889.1	894.6	897.8
12.5°	876.6	877.0	878.8	886.3	891.8
15°	861.4	862.2	866.0	876.6	881.2
17.5°	844.8	844.8	852.1	860.4	866.0
20°	823.5	824.9	833.2	842.4	847.9
22.5°	801.8	804.1	811.0	821.7	826.7
25°	777.3	780.1	786.1	796.3	800.4
27.5°	748.8	752.4	758.9	766.2	775.0
30°	715.9	721.5	725.7	735.8	745.5
32.5°	682.7	687.8	692.4	703.1	714.1
35°	644.0	649.4	651.3	667.0	677.7
37.5°	604.3	606.6	607.4	623.2	634.7
40°	556.7	561.3	562.7	575.2	582.5
42.5°	510.9	512.9	515.6	524.9	533.7
45°	461.6	463.9	469.9	472.7	477.3
47.5°	409.9	416.9	423.7	414.9	415.4
50°	362.8	368.4	375.7	359.1	359.1
52.5°	320.8	323.6	324.1	310.3	312.9
55°	282.5	275.6	275.1	265.9	271.4
57.5°	244.2	235.0	231.7	228.9	235.4
60°	213.3	196.7	192.0	196.2	205.0
62.5°	187.9	166.6	157.8	168.4	176.4
65°	161.1	141.7	127.4	147.3	155.6
67.5°	140.3	121.9	103.5	131.6	137.5
70°	120.9	106.6	85.4	119.6	124.2
72.5°	105.3	94.2	73.9	108.0	113.6
75°	91.4	82.2	68.3	95.5	104.3
77.5°	80.4	70.1	63.8	82.6	93.2
80°	67.9	57.7	57.7	69.3	78.9
82.5°	53.5	45.2	46.7	56.3	63.3
85°	35.5	33.2	31.4	41.0	44.8
87.5°	18.0	18.4	16.6	21.3	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)