

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: P476073

Luminaire Tested: **22GR-LD5-20-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476073
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1981.3 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

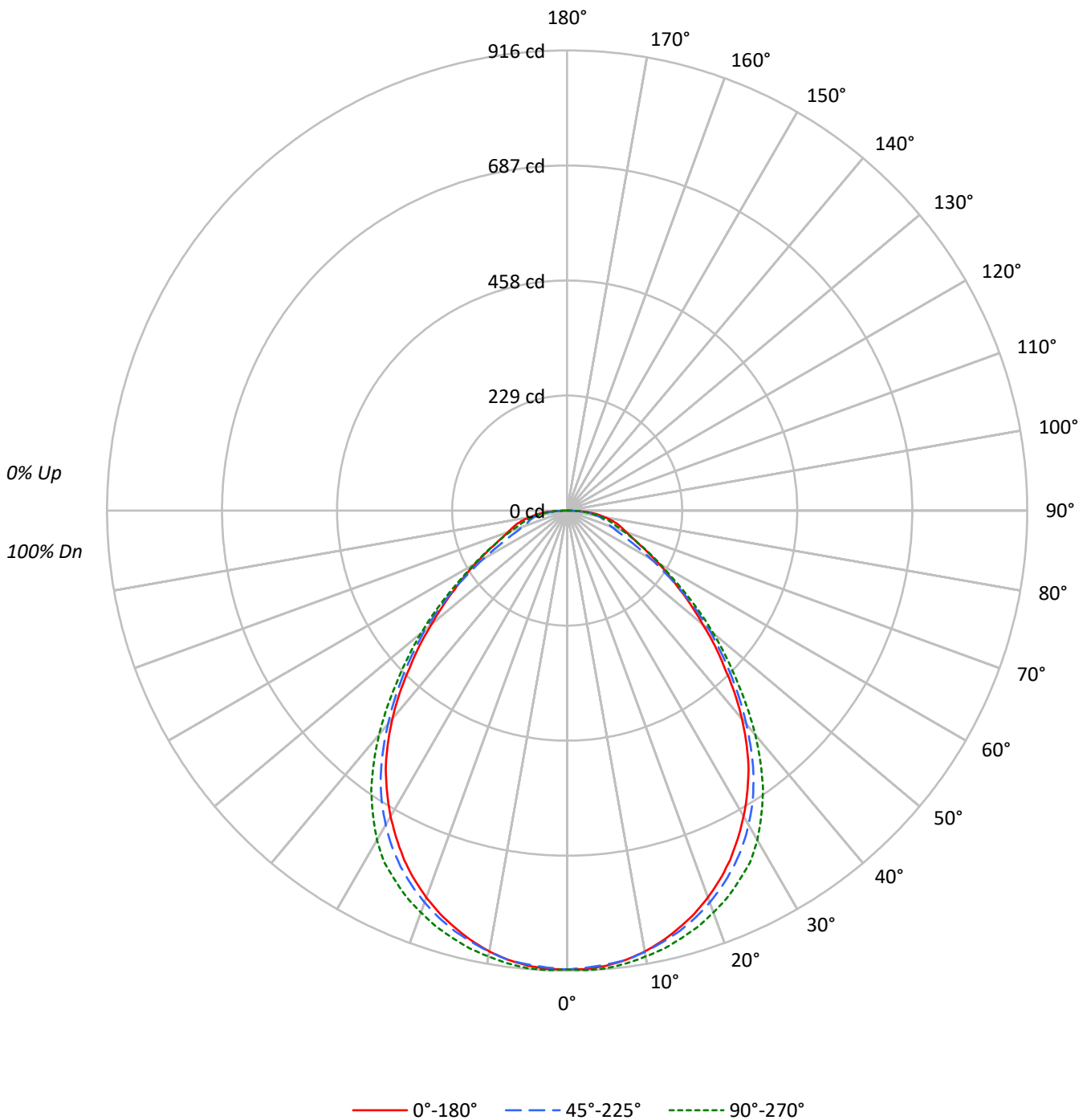
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	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	52	46	41	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	34	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					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2458	2458	2458
5°	2456	2450	2470
10°	2435	2437	2463
15°	2396	2413	2454
20°	2347	2377	2438
25°	2278	2325	2410
30°	2183	2245	2353
35°	2068	2126	2234
40°	1902	1949	2046
45°	1689	1751	1814
50°	1476	1543	1590
55°	1283	1301	1348
60°	1129	1034	1151
65°	1004	826	1009
70°	985	734	931
75°	1076	807	950
80°	1182	958	1017
85°	1411	1115	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	4.4
10°-20°	244.8	12.4
20°-30°	361.4	18.2
30°-40°	404.3	20.4
40°-50°	355.1	17.9
50°-60°	251.2	12.7
60°-70°	146.3	7.4
70°-80°	91.1	4.6
80°-90°	40.8	2.1
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°	692.4	34.9
0°-40°	1096.8	55.4
0°-60°	1703.1	86.0
0°-90°	1981.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	909	907	907	912	914	86
15°	860	862	866	875	881	242
25°	767	770	783	802	812	352
35°	630	632	647	667	680	392
45°	444	449	460	471	477	343
55°	273	279	277	282	287	247
65°	158	145	130	141	158	160
75°	104	89	78	79	91	108
85°	46	48	36	35	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.3	913.3	913.3	913.3	913.3
2.5°	913.3	911.5	910.5	913.8	915.6
5°	909.1	906.8	906.8	911.5	914.3
7.5°	901.8	899.5	902.2	906.3	909.1
10°	891.2	890.2	892.0	897.6	901.3
12.5°	877.2	877.7	879.6	888.4	893.0
15°	860.1	862.0	866.2	875.4	880.9
17.5°	841.7	843.1	849.5	860.1	868.1
20°	819.5	822.2	830.2	843.5	851.4
22.5°	795.0	798.3	807.9	824.2	833.8
25°	767.3	770.5	783.0	801.5	811.7
27.5°	735.9	740.9	754.9	775.2	789.0
30°	702.7	706.8	722.5	745.6	757.2
32.5°	667.1	672.1	686.9	709.0	719.3
35°	629.6	632.4	647.2	666.6	680.0
37.5°	587.2	588.5	602.3	620.4	632.4
40°	541.5	542.3	554.8	571.9	582.5
42.5°	493.8	494.3	507.7	520.6	529.9
45°	443.9	449.1	460.1	471.2	476.7
47.5°	399.1	402.9	413.0	422.7	427.8
50°	352.5	361.7	368.6	373.8	379.8
52.5°	312.3	320.1	321.9	327.9	333.1
55°	273.4	279.0	277.2	282.2	287.4
57.5°	240.7	237.9	231.9	240.7	247.1
60°	209.7	202.3	192.1	204.2	213.9
62.5°	182.0	170.0	157.6	169.5	185.7
65°	157.6	145.1	129.8	141.4	158.4
67.5°	139.1	126.1	108.0	119.7	136.8
70°	125.2	111.8	93.3	103.0	118.3
72.5°	114.2	99.7	83.6	90.1	103.0
75°	103.5	89.1	77.6	79.4	91.4
77.5°	91.1	80.4	71.1	70.2	79.4
80°	76.3	73.0	61.8	60.5	65.6
82.5°	62.8	61.5	50.8	49.4	51.3
85°	45.7	47.5	36.1	35.1	36.9
87.5°	24.1	26.3	18.9	19.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)