

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: P476085

Luminaire Tested: **22GR-LD5-20-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476085
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2053.2 lumens
Efficiency: N/A
Efficacy: 136.0 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

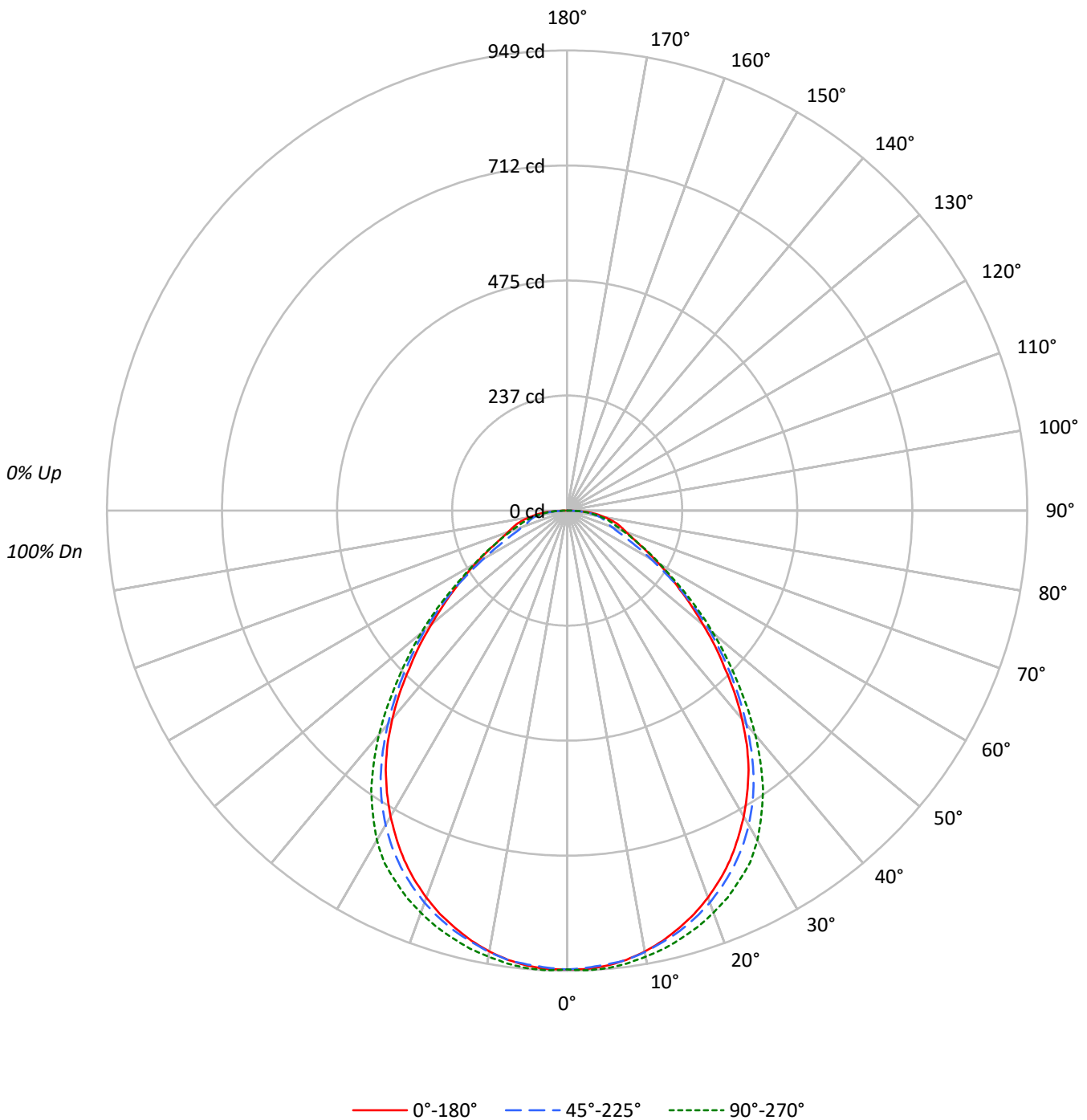
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	2547	2547	2547
5°	2545	2538	2559
10°	2523	2526	2552
15°	2483	2501	2543
20°	2432	2464	2527
25°	2361	2409	2498
30°	2263	2326	2438
35°	2143	2203	2315
40°	1971	2020	2121
45°	1751	1815	1880
50°	1529	1599	1647
55°	1329	1348	1397
60°	1170	1072	1193
65°	1040	856	1046
70°	1020	760	965
75°	1116	836	985
80°	1224	993	1054
85°	1463	1155	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.4
10°-20°	253.7	12.4
20°-30°	374.5	18.2
30°-40°	419.0	20.4
40°-50°	368.0	17.9
50°-60°	260.4	12.7
60°-70°	151.6	7.4
70°-80°	94.4	4.6
80°-90°	42.3	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°	717.6	34.9
0°-40°	1136.6	55.4
0°-60°	1764.9	86.0
0°-90°	2053.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	942	940	940	944	947	89
15°	891	893	898	907	913	251
25°	795	798	811	830	841	365
35°	652	655	671	691	705	406
45°	460	465	477	488	494	356
55°	283	289	287	292	298	256
65°	163	150	134	146	164	166
75°	107	92	80	82	95	112
85°	47	49	37	36	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.4	946.4	946.4	946.4	946.4
2.5°	946.4	944.5	943.5	946.9	948.8
5°	942.1	939.7	939.7	944.5	947.4
7.5°	934.5	932.1	934.9	939.2	942.1
10°	923.5	922.5	924.4	930.2	934.0
12.5°	909.0	909.6	911.5	920.6	925.4
15°	891.3	893.2	897.6	907.1	912.8
17.5°	872.2	873.7	880.3	891.3	899.5
20°	849.3	852.1	860.3	874.1	882.3
22.5°	823.8	827.2	837.2	854.1	864.1
25°	795.2	798.5	811.4	830.5	841.2
27.5°	762.6	767.8	782.3	803.3	817.6
30°	728.2	732.5	748.7	772.6	784.7
32.5°	691.3	696.5	711.8	734.8	745.4
35°	652.4	655.3	670.7	690.8	704.6
37.5°	608.5	609.9	624.2	642.9	655.3
40°	561.1	562.0	574.9	592.6	603.7
42.5°	511.7	512.2	526.2	539.5	549.1
45°	460.0	465.4	476.8	488.3	494.0
47.5°	413.5	417.5	428.0	438.0	443.3
50°	365.3	374.8	382.0	387.3	393.5
52.5°	323.6	331.7	333.6	339.8	345.2
55°	283.3	289.2	287.3	292.5	297.8
57.5°	249.4	246.5	240.3	249.4	256.1
60°	217.4	209.6	199.1	211.7	221.7
62.5°	188.6	176.2	163.3	175.7	192.4
65°	163.3	150.3	134.5	146.5	164.2
67.5°	144.1	130.7	112.0	124.0	141.7
70°	129.7	115.9	96.6	106.8	122.6
72.5°	118.3	103.4	86.6	93.3	106.8
75°	107.3	92.3	80.4	82.3	94.7
77.5°	94.4	83.3	73.7	72.7	82.3
80°	79.0	75.6	64.1	62.7	68.0
82.5°	65.1	63.7	52.7	51.2	53.2
85°	47.4	49.3	37.4	36.4	38.3
87.5°	25.0	27.2	19.6	20.6	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)