

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: P476048

Luminaire Tested: **22GR-LD5-90-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476048
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-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: 8786.2 lumens
Efficiency: N/A
Efficacy: 126.8 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

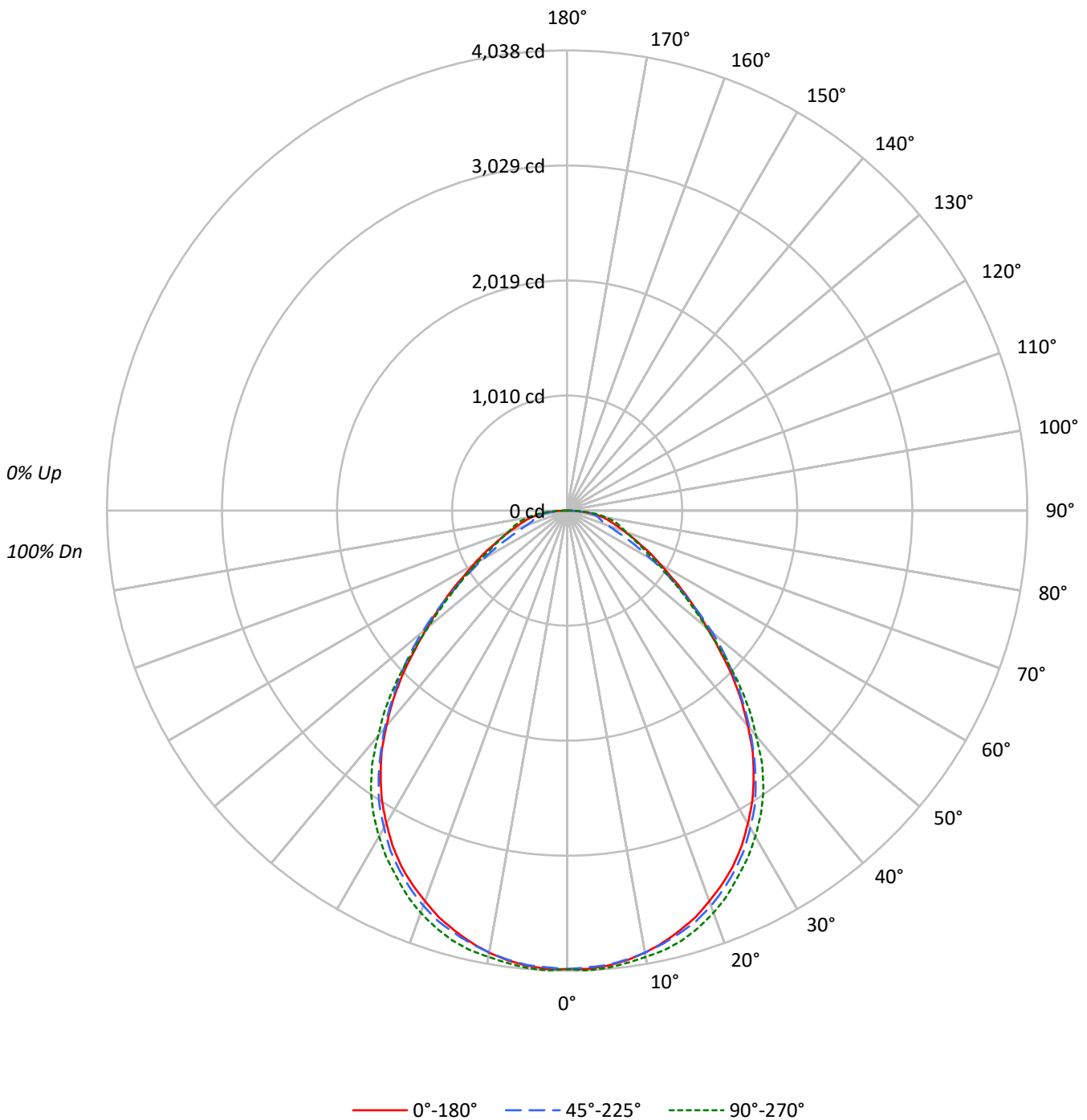
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10827	10827	10827
5°	10831	10815	10880
10°	10765	10761	10866
15°	10629	10686	10873
20°	10446	10568	10755
25°	10223	10339	10527
30°	9853	9987	10260
35°	9370	9476	9860
40°	8663	8756	9064
45°	7781	7921	8046
50°	6727	6967	6659
55°	5871	5716	5640
60°	5084	4577	4886
65°	4544	3593	4389
70°	4214	2976	4329
75°	4208	3144	4803
80°	4661	3958	5416
85°	4860	4292	6132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	4.3
10°-20°	1084.5	12.3
20°-30°	1603.9	18.3
30°-40°	1810.0	20.6
40°-50°	1595.5	18.2
50°-60°	1094.5	12.5
60°-70°	645.9	7.4
70°-80°	403.0	4.6
80°-90°	168.0	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°	3069.2	34.9
0°-40°	4879.2	55.5
0°-60°	7569.2	86.1
0°-90°	8786.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8786.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4024	4024	4024	4024	4024	
5°	4010	4001	4004	4018	4028	380
15°	3815	3819	3836	3883	3903	1075
25°	3443	3456	3482	3527	3545	1581
35°	2852	2877	2885	2954	3002	1777
45°	2044	2055	2081	2094	2114	1571
55°	1251	1221	1218	1178	1202	1122
65°	714	628	564	652	689	719
75°	405	364	302	423	462	434
85°	157	147	139	182	199	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4023.6	4023.6	4023.6	4023.6	4023.6
2.5°	4025.8	4015.5	4011.7	4027.9	4038.2
5°	4009.5	4001.4	4003.6	4017.7	4027.9
7.5°	3980.9	3974.9	3974.9	3994.9	4005.2
10°	3939.8	3938.1	3938.1	3962.5	3976.5
12.5°	3882.9	3884.6	3892.7	3925.7	3950.0
15°	3815.3	3819.1	3835.9	3882.9	3903.0
17.5°	3741.7	3741.7	3774.2	3811.0	3835.9
20°	3647.6	3653.5	3690.3	3731.5	3755.8
22.5°	3551.3	3561.6	3592.4	3639.5	3661.7
25°	3443.1	3455.5	3482.0	3526.9	3545.3
27.5°	3316.5	3332.7	3361.4	3393.9	3432.8
30°	3171.0	3195.8	3214.2	3259.1	3301.9
32.5°	3023.8	3046.5	3067.1	3114.1	3162.8
35°	2852.3	2876.6	2884.7	2954.5	3001.6
37.5°	2676.5	2686.7	2690.5	2760.3	2811.2
40°	2466.0	2486.0	2492.5	2547.7	2580.2
42.5°	2263.1	2271.8	2283.7	2324.8	2363.7
45°	2044.5	2054.8	2081.3	2093.8	2114.3
47.5°	1815.7	1846.5	1876.8	1837.9	1840.0
50°	1606.8	1631.7	1664.2	1590.6	1590.6
52.5°	1420.7	1433.2	1435.3	1374.2	1386.1
55°	1251.4	1220.6	1218.4	1177.8	1202.2
57.5°	1081.5	1040.9	1026.3	1013.9	1042.6
60°	944.6	871.1	850.5	868.9	907.8
62.5°	832.1	738.0	699.0	746.1	781.2
65°	713.6	627.6	564.3	652.5	689.3
67.5°	621.6	539.9	458.2	582.7	609.2
70°	535.6	472.3	378.2	529.7	550.2
72.5°	466.4	417.1	327.3	478.3	503.2
75°	404.7	364.1	302.4	423.1	462.0
77.5°	356.0	310.5	282.4	365.7	412.8
80°	300.8	255.4	255.4	306.8	349.5
82.5°	237.0	200.2	206.7	249.4	280.3
85°	157.4	147.2	139.0	181.8	198.6
87.5°	79.5	81.7	73.6	94.1	96.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)