

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: P476119

Luminaire Tested: **22GR-LD5-85-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476119
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8751.7 lumens
Efficiency: N/A
Efficacy: 135.1 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

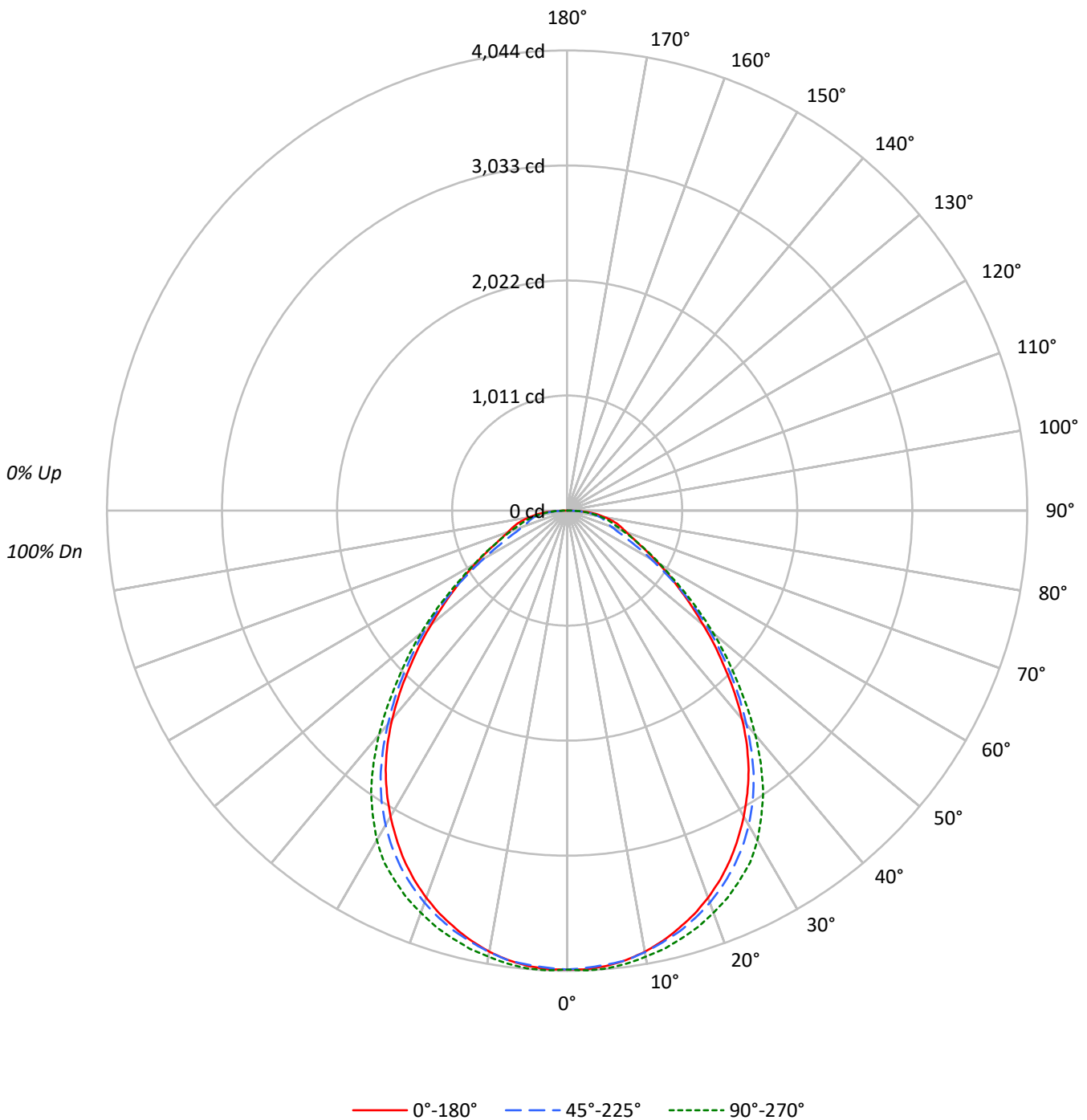
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10856	10856	10856
5°	10848	10820	10909
10°	10756	10767	10879
15°	10584	10660	10840
20°	10367	10501	10770
25°	10064	10269	10646
30°	9645	9917	10393
35°	9136	9391	9867
40°	8402	8609	9039
45°	7462	7734	8013
50°	6519	6817	7023
55°	5666	5745	5955
60°	4986	4568	5085
65°	4431	3651	4455
70°	4350	3241	4112
75°	4755	3564	4198
80°	5221	4234	4493
85°	6234	4918	5033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	4.4
10°-20°	1081.2	12.4
20°-30°	1596.2	18.2
30°-40°	1786.1	20.4
40°-50°	1568.5	17.9
50°-60°	1109.8	12.7
60°-70°	646.0	7.4
70°-80°	402.6	4.6
80°-90°	180.1	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°	3058.7	34.9
0°-40°	4844.7	55.4
0°-60°	7523.0	86.0
0°-90°	8751.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8751.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4034	4034	4034	4034	4034	
5°	4016	4006	4006	4026	4038	381
15°	3799	3807	3826	3867	3891	1071
25°	3390	3404	3459	3540	3586	1557
35°	2781	2793	2859	2945	3004	1730
45°	1961	1984	2032	2081	2106	1517
55°	1208	1233	1224	1247	1269	1092
65°	696	641	573	625	700	706
75°	457	394	343	351	404	478
85°	202	210	159	155	163	205
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4034.1	4034.1	4034.1	4034.1	4034.1
2.5°	4034.1	4026.0	4021.7	4036.3	4044.4
5°	4015.8	4005.5	4005.5	4026.0	4038.5
7.5°	3983.4	3973.1	3985.0	4003.4	4015.8
10°	3936.4	3932.1	3940.2	3965.0	3981.2
12.5°	3874.9	3877.0	3885.1	3924.0	3944.5
15°	3799.3	3807.4	3826.3	3866.8	3891.1
17.5°	3717.8	3724.2	3752.3	3799.3	3834.4
20°	3620.0	3631.9	3667.0	3725.9	3760.9
22.5°	3511.5	3526.1	3568.7	3640.5	3683.2
25°	3389.5	3403.5	3458.6	3540.1	3585.5
27.5°	3250.7	3272.9	3334.4	3424.0	3485.1
30°	3103.9	3122.2	3191.4	3293.4	3344.7
32.5°	2946.8	2968.9	3034.2	3132.0	3177.3
35°	2781.0	2793.4	2858.8	2944.6	3003.5
37.5°	2593.7	2599.6	2660.6	2740.5	2793.4
40°	2391.8	2395.5	2450.6	2526.2	2573.2
42.5°	2181.2	2183.4	2242.7	2299.4	2340.5
45°	1960.9	1983.6	2032.2	2081.3	2105.6
47.5°	1762.8	1779.5	1824.3	1867.0	1889.7
50°	1557.1	1597.6	1628.3	1651.0	1677.5
52.5°	1379.4	1414.0	1422.1	1448.6	1471.2
55°	1207.8	1232.6	1224.5	1246.6	1269.3
57.5°	1063.1	1050.6	1024.2	1063.1	1091.7
60°	926.5	893.5	848.7	902.2	944.8
62.5°	803.9	751.0	695.9	748.8	820.1
65°	695.9	640.9	573.4	624.7	699.7
67.5°	614.4	557.2	477.3	528.6	604.1
70°	552.9	494.0	411.9	455.1	522.6
72.5°	504.3	440.6	369.3	397.9	455.1
75°	457.3	393.6	342.8	350.9	403.8
77.5°	402.2	355.3	314.2	309.9	350.9
80°	336.9	322.3	273.2	267.3	289.9
82.5°	277.5	271.6	224.6	218.1	226.8
85°	201.9	210.0	159.3	155.0	163.0
87.5°	106.4	116.1	83.7	88.0	89.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)