

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: P475999

Luminaire Tested: **22GR-LD5-85-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475999
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A19/156-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8118.4 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

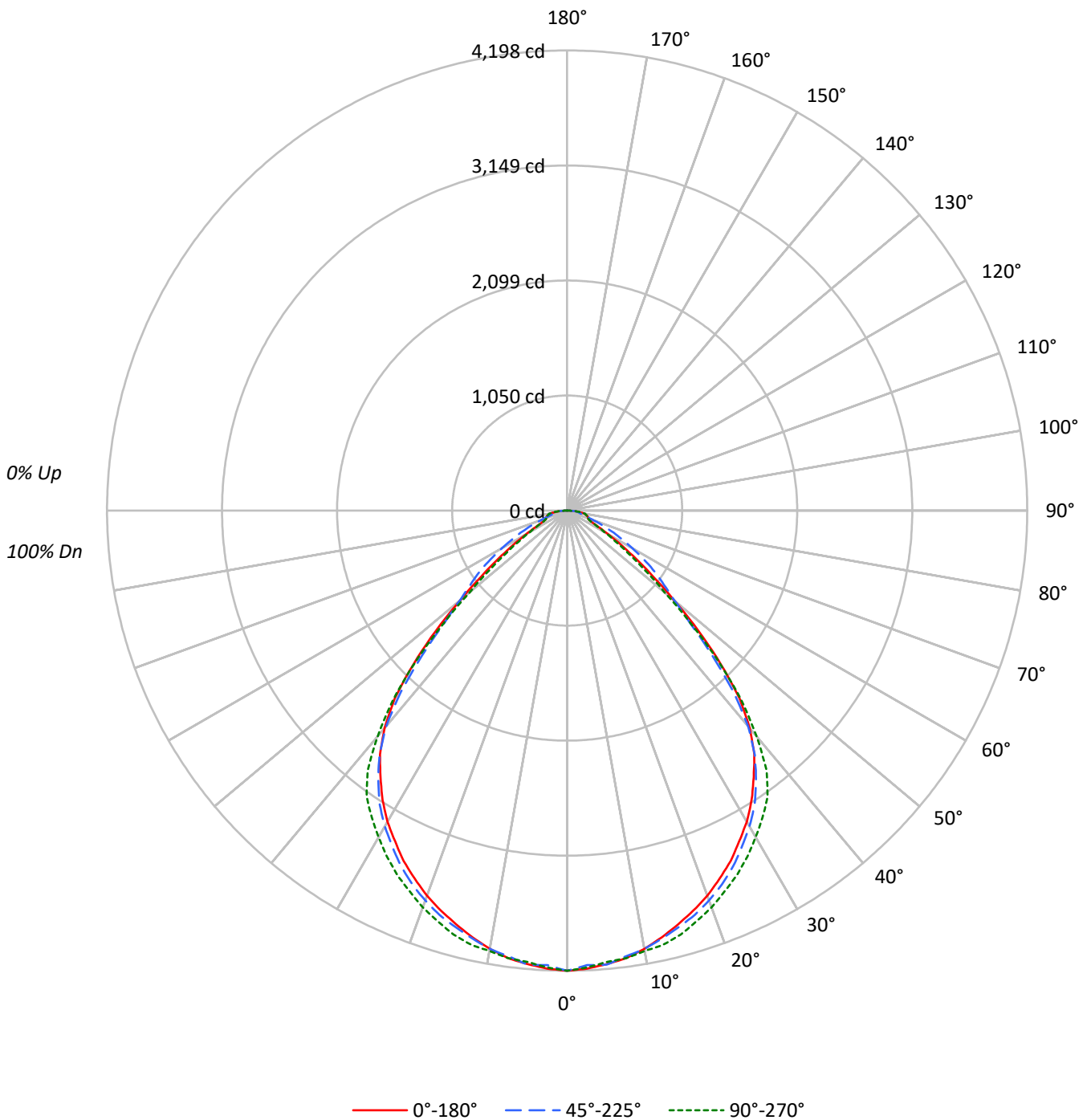
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	82	79					77				
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70					68				
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	65	62					60				
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55					53				
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50					48				
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45					43				
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11297	11297	11297
5°	11218	11230	11167
10°	11092	11096	11147
15°	10888	10962	11157
20°	10705	10839	11031
25°	10475	10637	10887
30°	10183	10338	10691
35°	9747	9870	10474
40°	9098	9027	9448
45°	7555	7128	7490
50°	5323	5349	4880
55°	3575	4599	3217
60°	2306	3690	2139
65°	1598	2858	1538
70°	1606	1950	1594
75°	1976	1523	1961
80°	2414	1764	2560
85°	2359	2405	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	4.8
10°-20°	1112.6	13.7
20°-30°	1650.0	20.3
30°-40°	1887.5	23.2
40°-50°	1494.1	18.4
50°-60°	815.2	10.0
60°-70°	426.5	5.3
70°-80°	246.3	3.0
80°-90°	93.1	1.1
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°	3155.7	38.9
0°-40°	5043.1	62.1
0°-60°	7352.5	90.6
0°-90°	8118.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8118.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4198	4198	4198	4198	4198	
5°	4153	4123	4158	4144	4134	394
15°	3908	3928	3935	3966	4005	1102
25°	3528	3533	3582	3628	3667	1622
35°	2967	2967	3004	3114	3188	1851
45°	1985	1974	1873	1965	1968	1510
55°	762	952	980	913	686	707
65°	251	505	449	480	242	271
75°	190	304	146	299	189	197
85°	76	100	78	101	84	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4198.0	4198.0	4198.0	4198.0	4198.0
2.5°	4182.5	4157.5	4151.3	4163.8	4171.5
5°	4152.8	4123.2	4157.5	4143.5	4134.1
7.5°	4118.6	4107.7	4101.4	4123.2	4118.6
10°	4059.3	4043.8	4060.9	4073.4	4079.6
12.5°	3987.7	3995.5	3998.6	4037.5	4056.2
15°	3908.2	3928.5	3934.7	3965.9	4004.8
17.5°	3827.2	3831.8	3869.2	3909.8	3928.5
20°	3738.3	3746.1	3785.1	3822.5	3852.1
22.5°	3633.9	3643.3	3691.6	3733.7	3758.6
25°	3528.0	3532.6	3582.5	3627.7	3666.7
27.5°	3400.2	3425.1	3454.7	3517.1	3559.1
30°	3277.1	3292.7	3327.0	3395.5	3440.7
32.5°	3132.2	3138.4	3182.0	3256.8	3317.6
35°	2967.0	2967.0	3004.4	3113.5	3188.3
37.5°	2803.4	2781.6	2811.2	2935.8	2988.8
40°	2589.9	2574.3	2569.6	2655.3	2689.6
42.5°	2328.1	2298.5	2245.5	2332.8	2360.8
45°	1985.3	1974.4	1873.1	1965.0	1968.1
47.5°	1626.9	1634.6	1520.9	1612.8	1544.3
50°	1271.6	1352.6	1277.8	1316.8	1165.6
52.5°	989.5	1140.7	1112.6	1097.0	891.3
55°	762.0	952.1	980.2	913.2	685.6
57.5°	581.2	811.9	829.0	782.3	522.0
60°	428.5	685.6	685.6	663.8	397.4
62.5°	319.4	589.0	557.9	564.1	303.9
65°	250.9	504.9	448.8	480.0	241.5
67.5°	210.4	420.7	339.7	414.5	210.4
70°	204.1	366.2	247.8	374.0	202.6
72.5°	202.6	336.6	185.4	339.7	204.1
75°	190.1	303.9	146.5	299.2	188.6
77.5°	174.5	252.4	121.5	252.4	176.1
80°	155.8	191.7	113.8	196.3	165.2
82.5°	120.0	137.1	101.3	138.7	127.8
85°	76.4	99.7	77.9	101.3	84.1
87.5°	34.3	53.0	34.3	54.5	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)