

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: P234148

Luminaire Tested: **22GR-LD5-60-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A19/156-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5845.8 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

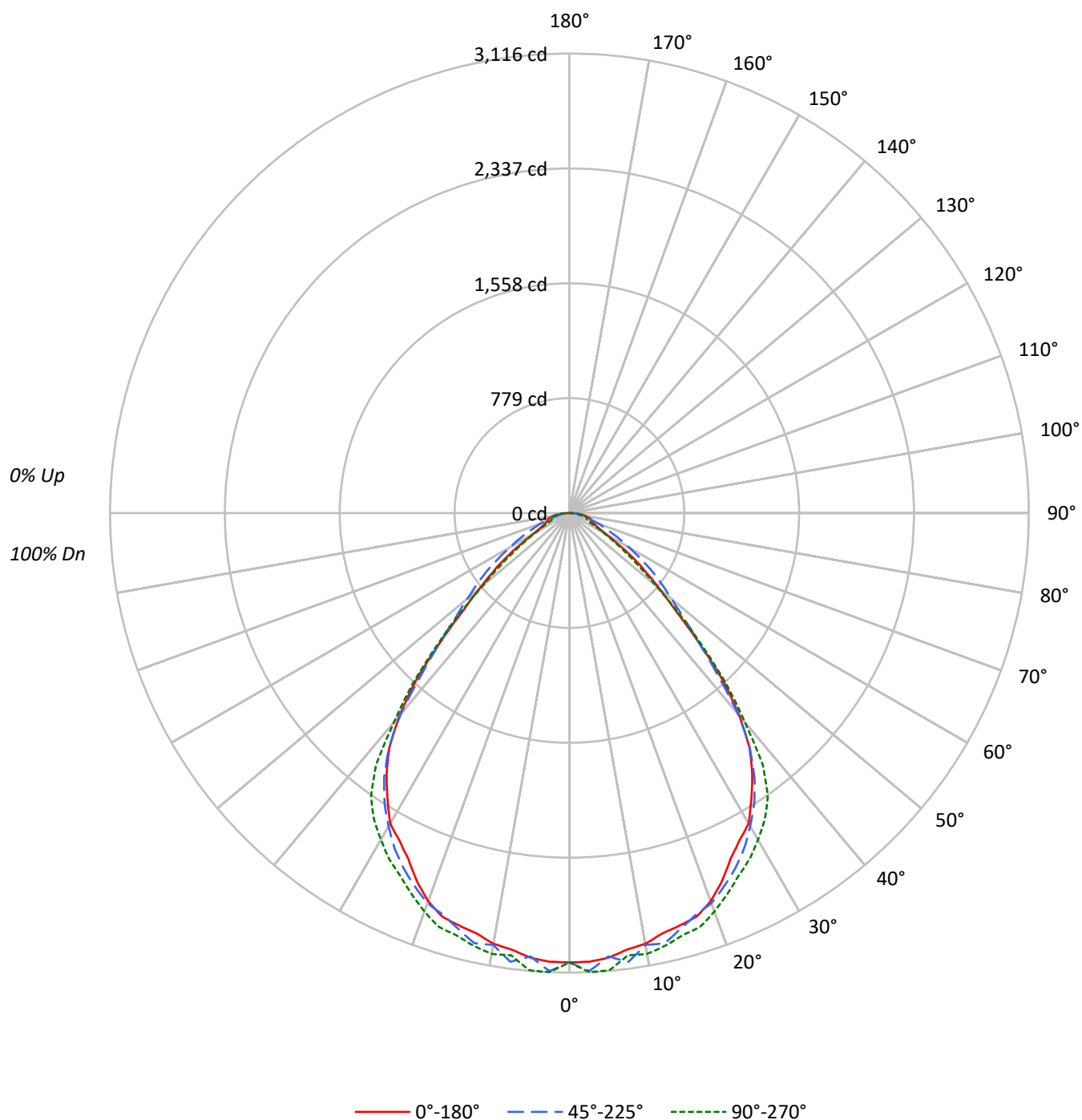
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	103	100	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	79	73		82	77	72			79	75	71			77
4	88	78	71	65	86	77	70	64		75	68	64			72	67	63			70
5	82	71	63	58	80	70	63	57		68	62	57			66	61	56			64
6	77	65	57	51	75	64	57	51		62	56	51			61	55	50			59
7	72	60	52	46	70	59	51	46		57	51	46			56	50	46			55
8	67	55	47	42	66	54	47	42		53	46	42			52	46	41			51
9	63	51	43	38	62	50	43	38		49	43	38			48	42	38			47
10	59	47	40	35	58	47	40	35		46	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9757	9757	9757
5°	9732	9701	10007
10°	9643	9670	9872
15°	9599	9672	9827
20°	9548	9595	9801
25°	9140	9398	9593
30°	8990	9071	9458
35°	8454	8562	9170
40°	7492	7439	7733
45°	5596	5608	5764
50°	3939	4481	3815
55°	2907	3784	2607
60°	1817	2990	1702
65°	1482	2370	1190
70°	1470	1974	1173
75°	1824	1449	1517
80°	2032	1143	1855
85°	2025	2128	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	5.0
10°-20°	826.1	14.1
20°-30°	1223.5	20.9
30°-40°	1370.5	23.4
40°-50°	1007.0	17.2
50°-60°	562.9	9.6
60°-70°	313.7	5.4
70°-80°	184.3	3.2
80°-90°	67.7	1.2
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°	2339.6	40.0
0°-40°	3710.1	63.5
0°-60°	5280.0	90.3
0°-90°	5845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5845.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3027	3084	3018	3080	3113	286
15°	2895	2913	2917	2961	2964	818
25°	2587	2607	2660	2697	2715	1199
35°	2162	2164	2190	2289	2346	1340
45°	1236	1336	1238	1326	1273	965
55°	521	634	678	676	467	465
65°	196	347	313	401	157	202
75°	147	208	117	236	123	148
85°	55	81	58	74	56	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3045.3	3072.9	3108.7	3112.8	3115.6
5°	3027.4	3083.9	3017.7	3079.7	3112.8
7.5°	2986.1	3020.6	3068.7	3006.7	3024.7
10°	2965.4	2973.7	2973.7	3050.9	3035.7
12.5°	2918.6	2973.7	2987.4	2972.3	3005.4
15°	2895.2	2913.1	2917.2	2961.3	2964.1
17.5°	2869.0	2864.9	2855.2	2886.9	2943.4
20°	2801.5	2786.3	2815.3	2853.9	2875.9
22.5°	2702.3	2706.5	2740.9	2772.6	2797.4
25°	2586.7	2607.3	2659.7	2696.9	2714.7
27.5°	2499.9	2530.2	2566.0	2610.1	2645.9
30°	2431.0	2428.2	2453.1	2516.4	2557.7
32.5°	2297.4	2307.0	2333.2	2409.0	2466.8
35°	2162.4	2163.8	2190.0	2289.1	2345.6
37.5°	2006.8	1995.8	2010.9	2118.4	2155.5
40°	1792.0	1794.7	1779.5	1855.3	1849.8
42.5°	1541.3	1563.3	1484.8	1583.9	1577.0
45°	1235.5	1336.1	1238.2	1326.4	1272.6
47.5°	975.2	1123.9	1042.7	1107.4	1006.8
50°	790.6	943.5	899.4	928.3	765.8
52.5°	648.7	772.7	786.4	793.3	597.8
55°	520.6	633.5	677.7	676.3	466.9
57.5°	384.3	515.2	566.1	586.8	354.0
60°	283.7	428.3	466.9	512.3	265.8
62.5°	228.7	376.0	385.7	449.0	202.5
65°	195.6	347.1	312.7	400.8	157.0
67.5°	173.5	323.7	254.8	358.1	133.6
70°	157.0	287.8	210.8	321.0	125.3
72.5°	152.9	245.2	162.5	286.5	123.9
75°	147.4	207.9	117.1	235.5	122.6
77.5°	126.7	177.7	84.0	181.8	114.3
80°	110.2	141.9	62.0	136.3	100.6
82.5°	85.4	107.5	55.1	103.3	81.3
85°	55.1	81.3	57.9	74.3	56.5
87.5°	26.2	45.4	41.3	39.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)