

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: P475996

Luminaire Tested: **22GR-LD5-50-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475996
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-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: 4805.9 lumens
Efficiency: N/A
Efficacy: 130.2 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

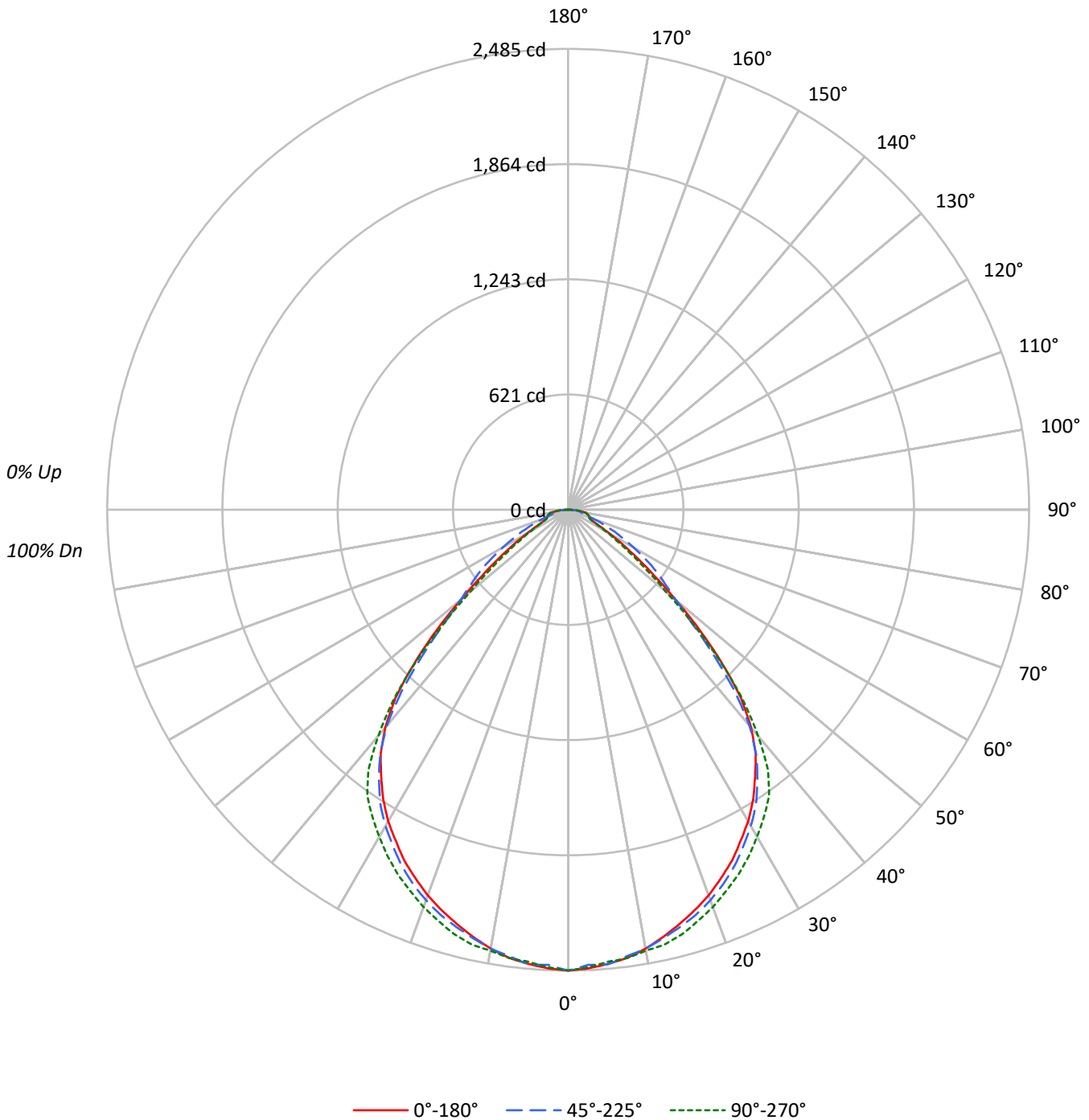
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6687	6687	6687
5°	6641	6648	6611
10°	6566	6569	6599
15°	6445	6489	6605
20°	6337	6417	6530
25°	6201	6297	6445
30°	6028	6120	6329
35°	5770	5843	6200
40°	5386	5343	5593
45°	4472	4220	4434
50°	3151	3167	2889
55°	2116	2722	1904
60°	1365	2185	1266
65°	946	1692	911
70°	950	1154	943
75°	1170	901	1160
80°	1429	1043	1516
85°	1396	1423	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.8
10°-20°	658.6	13.7
20°-30°	976.7	20.3
30°-40°	1117.3	23.2
40°-50°	884.5	18.4
50°-60°	482.6	10.0
60°-70°	252.5	5.3
70°-80°	145.8	3.0
80°-90°	55.1	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°	1868.1	38.9
0°-40°	2985.4	62.1
0°-60°	4352.5	90.6
0°-90°	4805.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4805.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2485	2485	2485	2485	2485	
5°	2458	2441	2461	2453	2447	233
15°	2314	2326	2329	2348	2371	653
25°	2088	2091	2121	2148	2171	960
35°	1756	1756	1778	1843	1887	1095
45°	1175	1169	1109	1163	1165	894
55°	451	564	580	541	406	418
65°	148	299	266	284	143	160
75°	112	180	87	177	112	117
85°	45	59	46	60	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.1	2485.1	2485.1	2485.1	2485.1
2.5°	2475.9	2461.1	2457.5	2464.8	2469.4
5°	2458.4	2440.8	2461.1	2452.8	2447.3
7.5°	2438.1	2431.6	2427.9	2440.8	2438.1
10°	2403.0	2393.8	2403.9	2411.3	2415.0
12.5°	2360.6	2365.2	2367.0	2390.1	2401.2
15°	2313.5	2325.5	2329.2	2347.7	2370.7
17.5°	2265.6	2268.3	2290.5	2314.5	2325.5
20°	2213.0	2217.6	2240.7	2262.8	2280.3
22.5°	2151.2	2156.7	2185.3	2210.2	2225.0
25°	2088.5	2091.2	2120.8	2147.5	2170.6
27.5°	2012.8	2027.6	2045.1	2082.0	2106.9
30°	1939.9	1949.2	1969.5	2010.1	2036.8
32.5°	1854.2	1857.8	1883.7	1928.0	1963.9
35°	1756.4	1756.4	1778.5	1843.1	1887.4
37.5°	1659.5	1646.6	1664.1	1737.9	1769.3
40°	1533.1	1523.9	1521.1	1571.9	1592.2
42.5°	1378.2	1360.6	1329.3	1380.9	1397.5
45°	1175.2	1168.8	1108.8	1163.2	1165.1
47.5°	963.1	967.7	900.3	954.8	914.2
50°	752.7	800.7	756.4	779.5	690.0
52.5°	585.8	675.2	658.6	649.4	527.7
55°	451.1	563.6	580.2	540.6	405.9
57.5°	344.1	480.6	490.8	463.1	309.0
60°	253.7	405.9	405.9	393.0	235.2
62.5°	189.1	348.7	330.2	333.9	179.9
65°	148.5	298.9	265.7	284.1	143.0
67.5°	124.5	249.1	201.1	245.4	124.5
70°	120.8	216.8	146.7	221.4	119.9
72.5°	119.9	199.3	109.8	201.1	120.8
75°	112.5	179.9	86.7	177.1	111.6
77.5°	103.3	149.4	72.0	149.4	104.2
80°	92.2	113.5	67.3	116.2	97.8
82.5°	71.0	81.2	60.0	82.1	75.6
85°	45.2	59.0	46.1	60.0	49.8
87.5°	20.3	31.4	20.3	32.3	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)