

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: P234090

Luminaire Tested: **22GR-LD5-70-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-F1-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5942.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

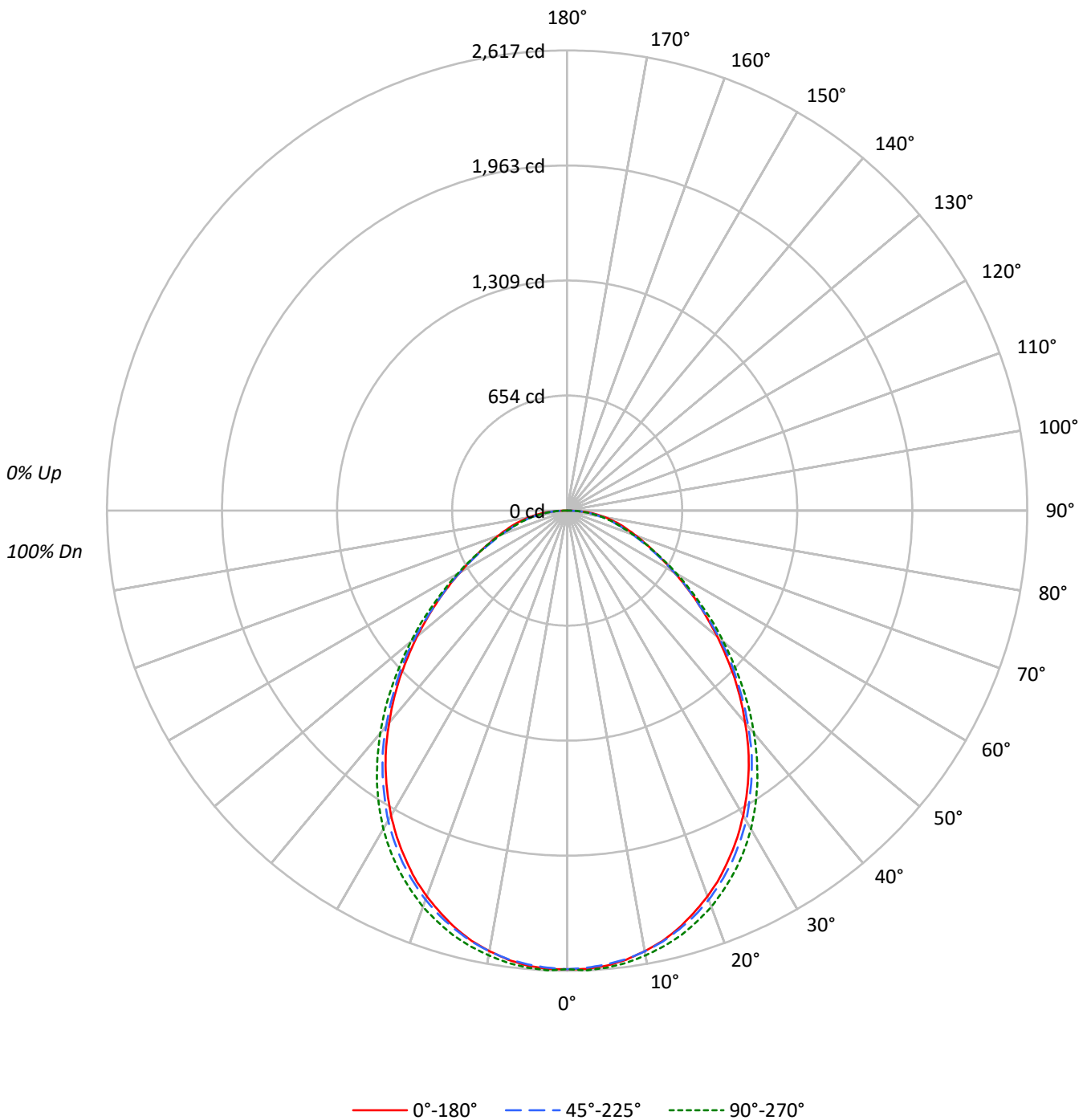
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					62				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8354	8354	8354
5°	8351	8329	8386
10°	8272	8277	8353
15°	8146	8174	8293
20°	7956	8026	8172
25°	7708	7815	7985
30°	7403	7531	7730
35°	7040	7153	7374
40°	6583	6692	6911
45°	6095	6188	6370
50°	5551	5640	5784
55°	5012	5027	5174
60°	4495	4513	4619
65°	4096	4012	4106
70°	3899	3680	3744
75°	3924	3549	3566
80°	4068	3585	3559
85°	4457	3799	3597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	4.1
10°-20°	696.2	11.7
20°-30°	1019.0	17.1
30°-40°	1145.7	19.3
40°-50°	1056.6	17.8
50°-60°	814.3	13.7
60°-70°	537.3	9.0
70°-80°	312.8	5.3
80°-90°	113.9	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°	1961.7	33.0
0°-40°	3107.4	52.3
0°-60°	4978.3	83.8
0°-90°	5942.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5942.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2598	2592	2591	2603	2609	246
15°	2457	2457	2465	2487	2501	691
25°	2181	2192	2212	2242	2260	1003
35°	1801	1809	1830	1867	1886	1123
45°	1346	1347	1366	1394	1406	1036
55°	898	896	900	916	927	805
65°	540	538	530	534	542	542
75°	317	303	287	281	288	334
85°	121	120	103	95	98	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2608.7	2608.7	2608.7	2608.7	2608.7
2.5°	2608.7	2603.2	2601.8	2611.5	2617.0
5°	2597.7	2592.2	2590.8	2603.2	2608.7
7.5°	2575.6	2571.5	2572.9	2586.6	2593.5
10°	2543.9	2542.5	2545.3	2560.5	2568.7
12.5°	2506.6	2505.3	2510.8	2527.4	2538.4
15°	2457.0	2457.0	2465.3	2487.4	2501.2
17.5°	2397.8	2401.9	2414.3	2436.4	2451.6
20°	2334.4	2338.4	2355.0	2379.8	2397.8
22.5°	2264.0	2269.5	2286.1	2316.4	2331.5
25°	2181.3	2192.3	2211.6	2242.0	2259.9
27.5°	2095.8	2108.2	2126.1	2163.3	2179.9
30°	2002.0	2010.3	2036.5	2070.9	2090.3
32.5°	1902.7	1911.1	1933.1	1974.5	1991.0
35°	1800.7	1809.0	1829.7	1866.9	1886.2
37.5°	1690.4	1697.3	1722.1	1751.1	1771.7
40°	1574.6	1584.2	1600.8	1635.3	1653.2
42.5°	1461.6	1465.7	1483.6	1518.1	1531.9
45°	1345.7	1347.1	1366.4	1394.0	1406.4
47.5°	1225.8	1228.5	1252.0	1268.5	1281.0
50°	1114.1	1115.5	1132.0	1147.2	1160.9
52.5°	1002.4	1002.4	1010.6	1027.2	1045.2
55°	897.6	896.2	900.4	915.5	926.6
57.5°	798.3	797.0	802.5	812.1	820.4
60°	701.8	699.0	704.6	710.1	721.1
62.5°	616.3	619.1	612.2	620.5	628.7
65°	540.5	537.7	529.5	533.6	541.9
67.5°	475.7	471.6	457.7	460.5	470.1
70°	416.4	408.2	393.0	393.0	399.8
72.5°	362.6	354.4	335.1	336.4	339.2
75°	317.1	303.4	286.8	281.3	288.2
77.5°	267.5	256.4	241.3	237.2	240.0
80°	220.6	212.3	194.4	188.9	193.0
82.5°	175.1	168.2	147.6	143.4	144.8
85°	121.3	119.9	103.4	95.1	97.9
87.5°	64.8	66.2	53.8	48.3	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)