

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: P234089

Luminaire Tested: **22GR-LD5-70-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234089
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-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5514.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

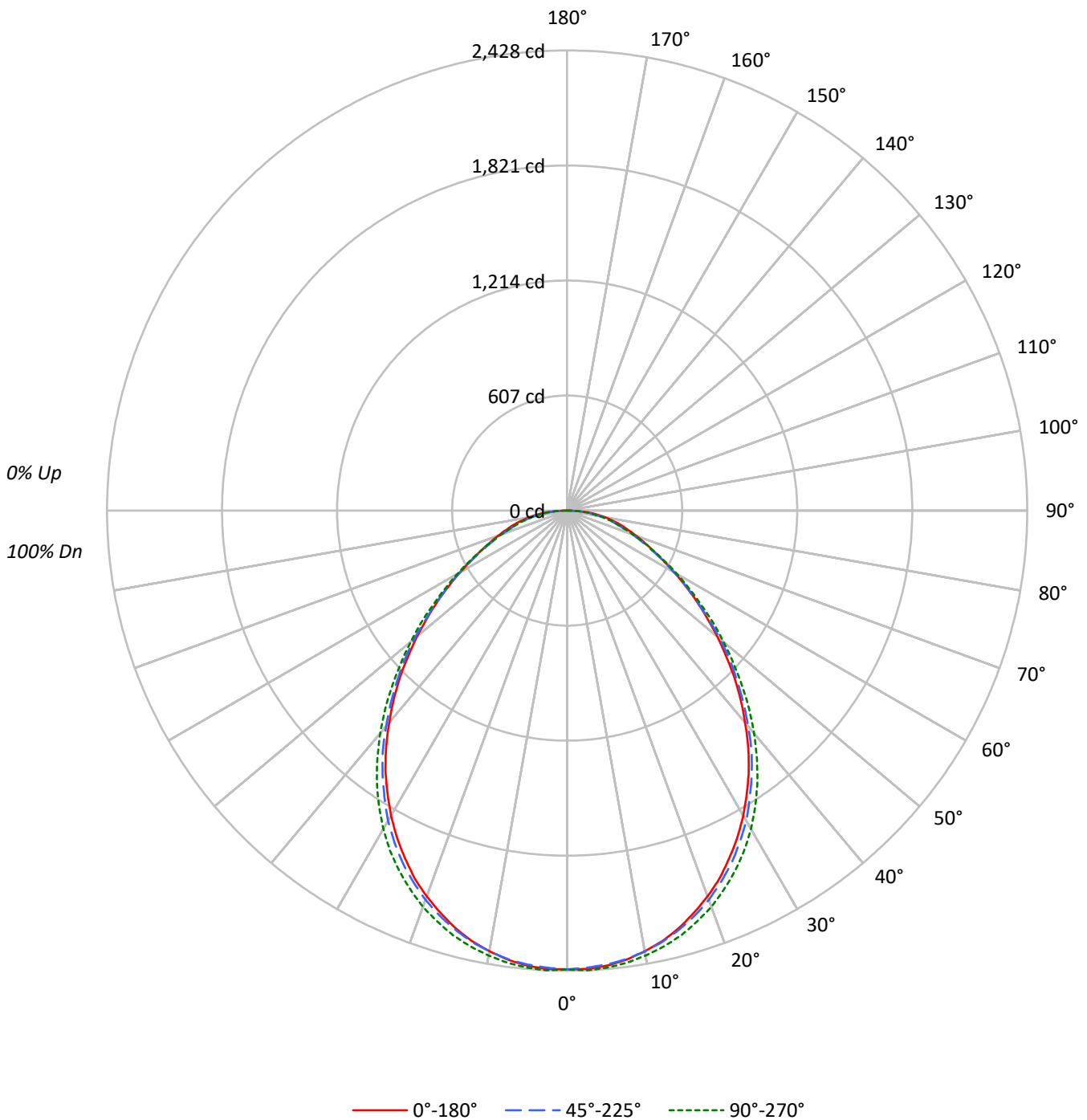
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	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°	7752	7752	7752
5°	7749	7728	7782
10°	7676	7680	7751
15°	7559	7584	7695
20°	7382	7447	7582
25°	7152	7252	7410
30°	6870	6988	7172
35°	6532	6638	6842
40°	6108	6210	6413
45°	5655	5742	5910
50°	5151	5233	5367
55°	4650	4665	4801
60°	4171	4188	4286
65°	3800	3723	3810
70°	3618	3415	3474
75°	3642	3293	3309
80°	3775	3327	3303
85°	4137	3524	3340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	4.1
10°-20°	646.0	11.7
20°-30°	945.6	17.1
30°-40°	1063.1	19.3
40°-50°	980.4	17.8
50°-60°	755.6	13.7
60°-70°	498.6	9.0
70°-80°	290.2	5.3
80°-90°	105.7	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°	1820.3	33.0
0°-40°	2883.4	52.3
0°-60°	4619.4	83.8
0°-90°	5514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2421	2421	2421	2421	2421	
5°	2410	2405	2404	2416	2421	228
15°	2280	2280	2288	2308	2321	642
25°	2024	2034	2052	2080	2097	931
35°	1671	1679	1698	1732	1750	1042
45°	1249	1250	1268	1294	1305	962
55°	833	832	836	850	860	747
65°	502	499	491	495	503	503
75°	294	282	266	261	267	310
85°	113	111	96	88	91	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2420.6	2420.6	2420.6	2420.6	2420.6
2.5°	2420.6	2415.6	2414.2	2423.2	2428.3
5°	2410.4	2405.3	2404.0	2415.6	2420.6
7.5°	2390.0	2386.1	2387.4	2400.2	2406.6
10°	2360.5	2359.2	2361.8	2375.9	2383.6
12.5°	2326.0	2324.7	2329.8	2345.2	2355.4
15°	2279.9	2279.9	2287.6	2308.1	2320.8
17.5°	2224.9	2228.8	2240.2	2260.7	2274.8
20°	2166.0	2169.9	2185.2	2208.3	2224.9
22.5°	2100.8	2105.9	2121.3	2149.4	2163.5
25°	2024.0	2034.3	2052.2	2080.3	2097.0
27.5°	1944.7	1956.2	1972.8	2007.4	2022.8
30°	1857.7	1865.4	1889.7	1921.7	1939.6
32.5°	1765.6	1773.2	1793.8	1832.1	1847.5
35°	1670.9	1678.6	1697.8	1732.3	1750.2
37.5°	1568.6	1575.0	1598.0	1624.8	1644.0
40°	1461.1	1470.0	1485.4	1517.4	1534.1
42.5°	1356.2	1360.1	1376.6	1408.7	1421.5
45°	1248.7	1250.0	1267.9	1293.5	1305.0
47.5°	1137.4	1140.0	1161.7	1177.0	1188.6
50°	1033.8	1035.1	1050.4	1064.4	1077.2
52.5°	930.1	930.1	937.8	953.2	969.8
55°	832.9	831.6	835.5	849.5	859.8
57.5°	740.8	739.5	744.6	753.6	761.3
60°	651.2	648.7	653.8	658.9	669.1
62.5°	571.9	574.5	568.1	575.7	583.4
65°	501.5	499.0	491.3	495.1	502.8
67.5°	441.4	437.6	424.8	427.3	436.3
70°	386.4	378.7	364.7	364.7	371.0
72.5°	336.4	328.8	310.9	312.2	314.7
75°	294.3	281.5	266.1	261.0	267.4
77.5°	248.2	238.0	223.9	220.1	222.6
80°	204.7	197.0	180.4	175.3	179.1
82.5°	162.5	156.1	136.9	133.1	134.3
85°	112.6	111.3	95.9	88.3	90.9
87.5°	60.1	61.4	49.9	44.8	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)