

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: P234085

Luminaire Tested: **22GR-LD5-60-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234085
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-LD5-60-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: 4677.9 lumens
Efficiency: N/A
Efficacy: 94.4 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

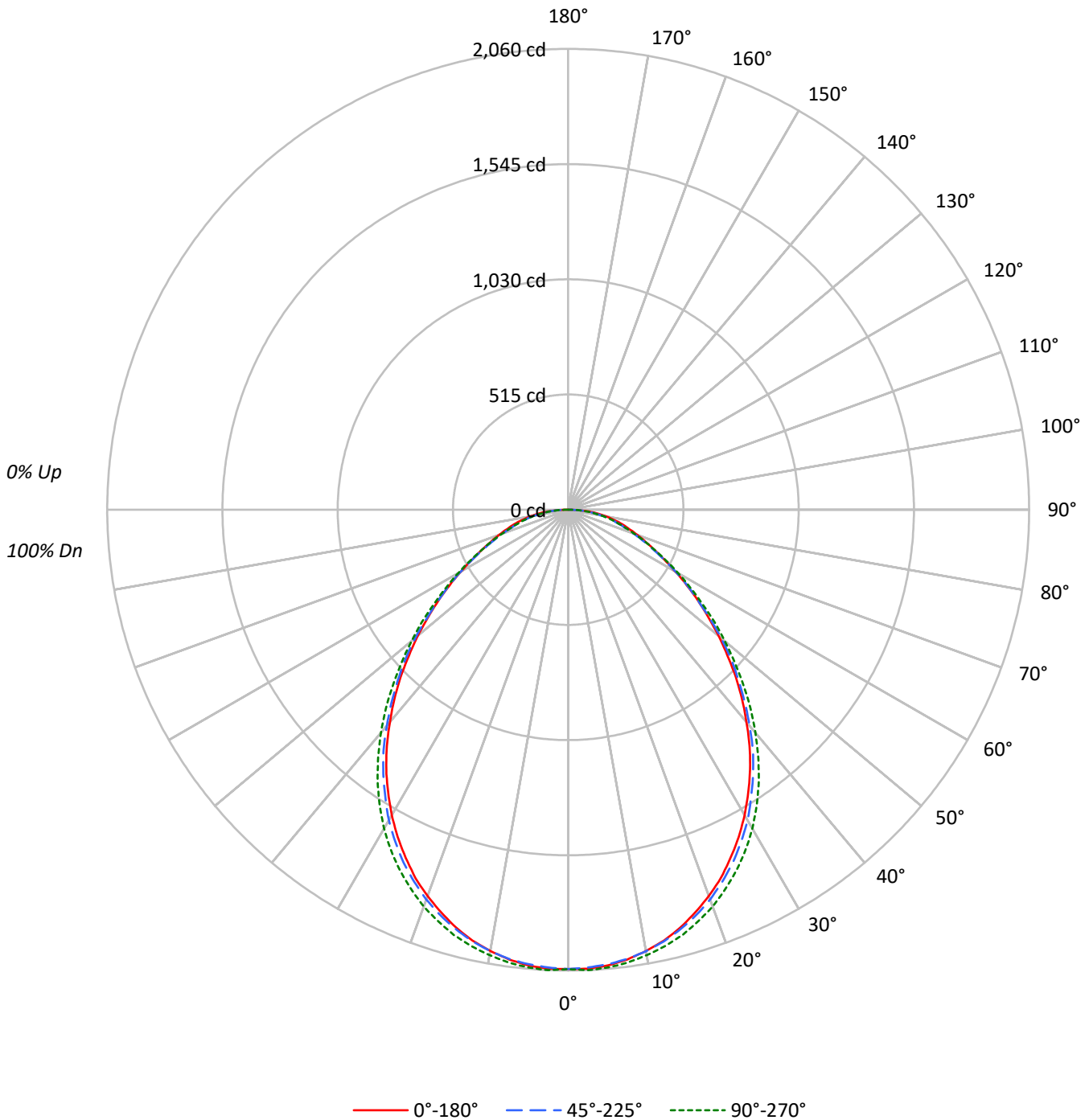
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6577	6577	6577
5°	6574	6556	6602
10°	6512	6516	6576
15°	6413	6435	6528
20°	6263	6318	6433
25°	6068	6152	6286
30°	5828	5928	6085
35°	5542	5631	5805
40°	5182	5268	5441
45°	4798	4872	5015
50°	4369	4440	4553
55°	3945	3957	4073
60°	3539	3552	3636
65°	3224	3158	3233
70°	3069	2897	2948
75°	3088	2793	2808
80°	3203	2822	2801
85°	3509	2991	2833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	4.1
10°-20°	548.1	11.7
20°-30°	802.2	17.1
30°-40°	901.9	19.3
40°-50°	831.8	17.8
50°-60°	641.1	13.7
60°-70°	423.0	9.0
70°-80°	246.2	5.3
80°-90°	89.7	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°	1544.3	33.0
0°-40°	2446.2	52.3
0°-60°	3919.0	83.8
0°-90°	4677.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2045	2041	2040	2049	2054	194
15°	1934	1934	1941	1958	1969	544
25°	1717	1726	1741	1765	1779	790
35°	1418	1424	1440	1470	1485	884
45°	1059	1060	1076	1097	1107	816
55°	707	706	709	721	729	634
65°	426	423	417	420	427	427
75°	250	239	226	221	227	263
85°	96	94	81	75	77	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.6	2053.6	2053.6	2053.6	2053.6
2.5°	2053.6	2049.3	2048.2	2055.8	2060.2
5°	2044.9	2040.6	2039.5	2049.3	2053.6
7.5°	2027.6	2024.3	2025.4	2036.2	2041.7
10°	2002.6	2001.5	2003.7	2015.6	2022.1
12.5°	1973.3	1972.2	1976.5	1989.6	1998.3
15°	1934.2	1934.2	1940.8	1958.1	1969.0
17.5°	1887.6	1890.8	1900.6	1918.0	1929.9
20°	1837.6	1840.9	1853.9	1873.5	1887.6
22.5°	1782.3	1786.6	1799.7	1823.5	1835.5
25°	1717.2	1725.9	1741.0	1764.9	1779.0
27.5°	1649.8	1659.6	1673.7	1703.1	1716.1
30°	1576.0	1582.5	1603.2	1630.3	1645.5
32.5°	1497.9	1504.4	1521.8	1554.3	1567.3
35°	1417.5	1424.1	1440.3	1469.7	1484.9
37.5°	1330.7	1336.2	1355.7	1378.5	1394.7
40°	1239.6	1247.1	1260.2	1287.3	1301.4
42.5°	1150.5	1153.8	1167.9	1195.1	1205.9
45°	1059.4	1060.4	1075.7	1097.4	1107.2
47.5°	965.0	967.1	985.6	998.6	1008.4
50°	877.0	878.1	891.2	903.1	913.9
52.5°	789.1	789.1	795.6	808.7	822.8
55°	706.6	705.5	708.8	720.7	729.4
57.5°	628.4	627.4	631.7	639.4	645.8
60°	552.5	550.3	554.6	559.0	567.7
62.5°	485.2	487.3	481.9	488.5	495.0
65°	425.5	423.3	416.8	420.1	426.6
67.5°	374.5	371.2	360.4	362.5	370.1
70°	327.8	321.3	309.4	309.4	314.8
72.5°	285.4	279.0	263.8	264.9	267.0
75°	249.6	238.8	225.7	221.4	226.9
77.5°	210.6	201.9	189.9	186.7	188.8
80°	173.7	167.1	153.0	148.7	151.9
82.5°	137.8	132.4	116.1	112.9	114.0
85°	95.5	94.5	81.4	74.9	77.1
87.5°	51.0	52.1	42.3	38.0	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)