

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: P234086

Luminaire Tested: **22GR-LD5-60-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234086
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-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: 5041.3 lumens
Efficiency: N/A
Efficacy: 101.7 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

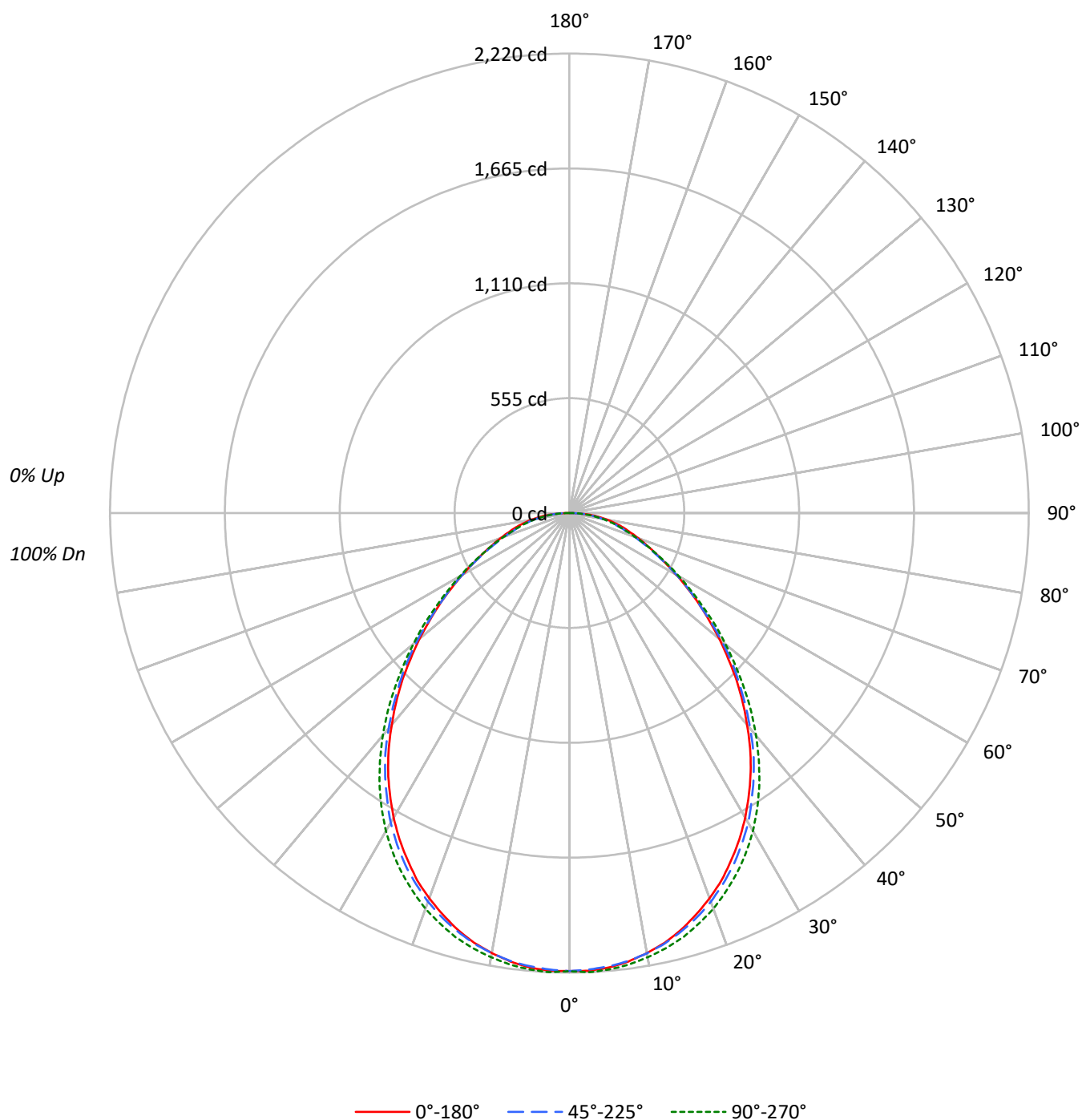
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	97	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	75	69	90	81	74	68		78	72	67		75	70	66		73	68	65
4	85	74	65	59	83	72	65	59		70	63	58		68	62	57		65	60	56
5	78	66	58	52	76	65	57	51		63	56	51		61	55	50		59	54	50
6	73	60	52	45	71	59	51	45		57	50	45		56	49	45		54	49	44
7	68	55	46	41	66	54	46	40		53	45	40		51	45	40		50	44	40
8	63	50	42	36	62	50	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		44	37	33		43	37	33
10	56	43	35	30	54	42	35	30		41	35	30		40	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7087	7087	7087
5°	7085	7066	7114
10°	7018	7022	7087
15°	6911	6934	7035
20°	6749	6809	6933
25°	6539	6630	6775
30°	6281	6389	6558
35°	5973	6069	6256
40°	5585	5677	5863
45°	5171	5250	5404
50°	4709	4784	4907
55°	4252	4265	4389
60°	3814	3828	3918
65°	3475	3404	3483
70°	3308	3122	3176
75°	3328	3010	3025
80°	3452	3041	3021
85°	3781	3222	3050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	4.1
10°-20°	590.6	11.7
20°-30°	864.5	17.1
30°-40°	972.0	19.3
40°-50°	896.4	17.8
50°-60°	690.8	13.7
60°-70°	455.9	9.0
70°-80°	265.3	5.3
80°-90°	96.7	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°	1664.2	33.0
0°-40°	2636.2	52.3
0°-60°	4223.5	83.8
0°-90°	5041.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5041.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2204	2199	2198	2208	2213	209
15°	2084	2084	2092	2110	2122	587
25°	1850	1860	1876	1902	1917	851
35°	1528	1535	1552	1584	1600	953
45°	1142	1143	1159	1183	1193	879
55°	762	760	764	777	786	683
65°	459	456	449	453	460	460
75°	269	257	243	239	244	283
85°	103	102	88	81	83	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2213.1	2208.5	2207.4	2215.5	2220.2
5°	2203.8	2199.1	2197.9	2208.5	2213.1
7.5°	2185.1	2181.6	2182.8	2194.4	2200.3
10°	2158.2	2157.0	2159.3	2172.3	2179.2
12.5°	2126.6	2125.4	2130.1	2144.1	2153.5
15°	2084.5	2084.5	2091.5	2110.2	2121.9
17.5°	2034.2	2037.7	2048.2	2066.9	2079.8
20°	1980.4	1983.9	1997.9	2019.0	2034.2
22.5°	1920.7	1925.4	1939.4	1965.2	1978.0
25°	1850.5	1859.9	1876.3	1902.0	1917.3
27.5°	1778.0	1788.6	1803.8	1835.3	1849.3
30°	1698.5	1705.5	1727.7	1757.0	1773.4
32.5°	1614.2	1621.3	1640.0	1675.1	1689.1
35°	1527.7	1534.7	1552.3	1583.8	1600.2
37.5°	1434.1	1440.0	1461.0	1485.5	1503.1
40°	1335.9	1344.0	1358.0	1387.4	1402.5
42.5°	1240.0	1243.5	1258.7	1287.9	1299.6
45°	1141.7	1142.8	1159.2	1182.6	1193.1
47.5°	1039.9	1042.3	1062.2	1076.2	1086.7
50°	945.2	946.3	960.3	973.2	984.9
52.5°	850.4	850.4	857.4	871.5	886.6
55°	761.5	760.3	763.8	776.7	786.1
57.5°	677.3	676.1	680.8	689.0	696.0
60°	595.4	593.0	597.7	602.4	611.7
62.5°	522.9	525.2	519.4	526.4	533.4
65°	458.6	456.2	449.2	452.7	459.7
67.5°	403.6	400.1	388.4	390.7	398.9
70°	353.3	346.2	333.4	333.4	339.2
72.5°	307.6	300.6	284.2	285.4	287.7
75°	269.0	257.4	243.3	238.6	244.5
77.5°	227.0	217.6	204.7	201.2	203.6
80°	187.2	180.1	164.9	160.2	163.8
82.5°	148.6	142.7	125.2	121.6	122.8
85°	102.9	101.7	87.7	80.8	83.0
87.5°	55.0	56.2	45.6	41.0	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)