

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: P234087

Luminaire Tested: **22GR-LD5-60-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234087
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-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5100.7 lumens
Efficiency: N/A
Efficacy: 102.9 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

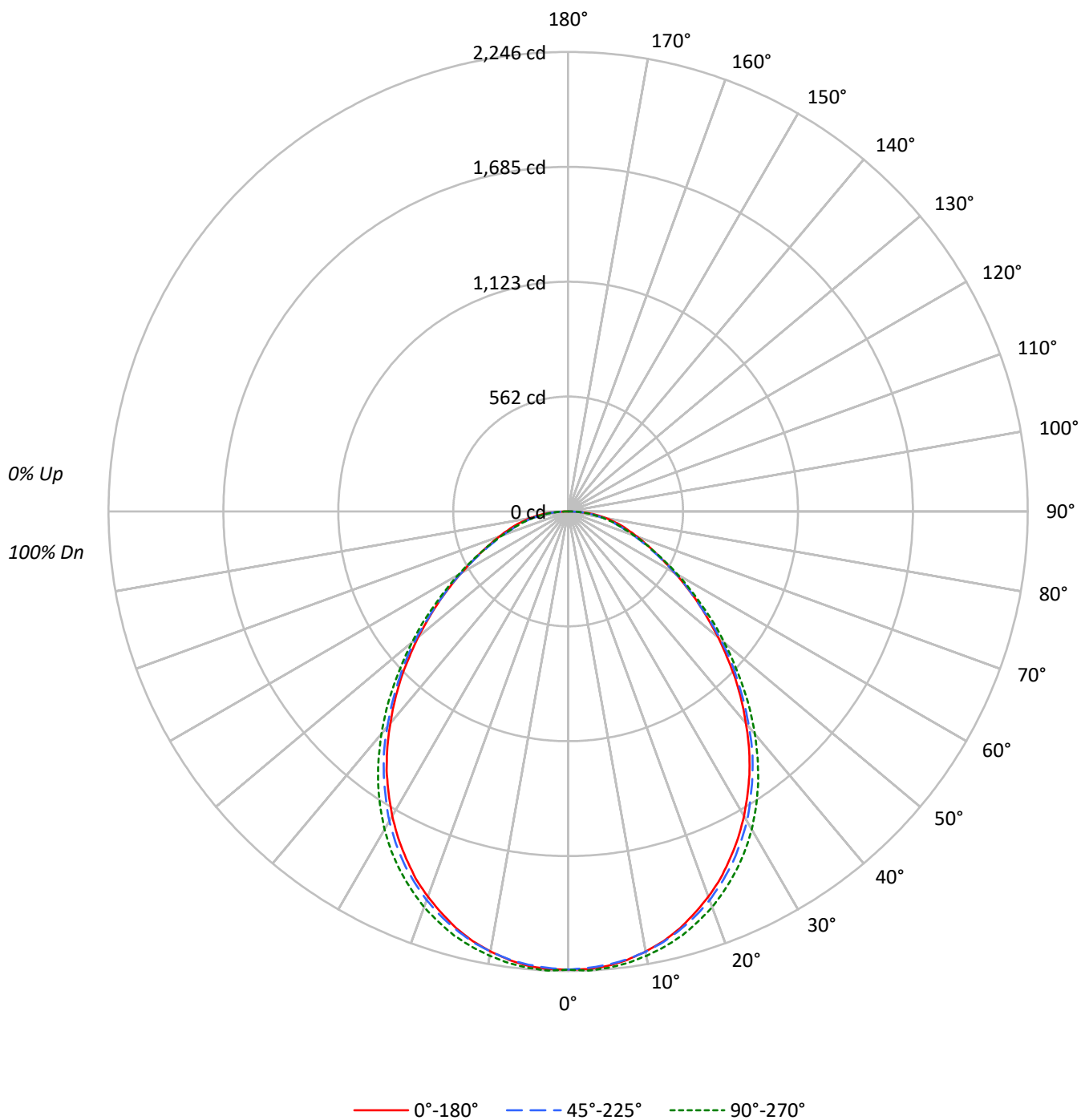
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7171	7171	7171
5°	7168	7149	7198
10°	7101	7104	7170
15°	6993	7016	7118
20°	6829	6889	7014
25°	6616	6708	6854
30°	6355	6464	6635
35°	6043	6140	6330
40°	5650	5744	5932
45°	5232	5312	5467
50°	4764	4841	4965
55°	4302	4315	4440
60°	3858	3874	3964
65°	3516	3444	3524
70°	3346	3158	3214
75°	3368	3045	3060
80°	3493	3076	3056
85°	3825	3263	3087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	4.1
10°-20°	597.6	11.7
20°-30°	874.7	17.1
30°-40°	983.4	19.3
40°-50°	906.9	17.8
50°-60°	699.0	13.7
60°-70°	461.2	9.0
70°-80°	268.5	5.3
80°-90°	97.8	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°	1683.8	33.0
0°-40°	2667.2	52.3
0°-60°	4273.2	83.8
0°-90°	5100.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5100.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2230	2225	2224	2234	2239	211
15°	2109	2109	2116	2135	2147	594
25°	1872	1882	1898	1924	1940	861
35°	1546	1553	1570	1602	1619	964
45°	1155	1156	1173	1196	1207	889
55°	770	769	773	786	795	691
65°	464	462	454	458	465	465
75°	272	260	246	241	247	287
85°	104	103	89	82	84	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2239.2	2234.5	2233.3	2241.6	2246.3
5°	2229.7	2225.0	2223.8	2234.5	2239.2
7.5°	2210.8	2207.3	2208.5	2220.3	2226.2
10°	2183.6	2182.4	2184.7	2197.8	2204.9
12.5°	2151.6	2150.4	2155.2	2169.4	2178.8
15°	2109.1	2109.1	2116.1	2135.0	2146.9
17.5°	2058.2	2061.7	2072.3	2091.3	2104.2
20°	2003.7	2007.2	2021.4	2042.8	2058.2
22.5°	1943.3	1948.1	1962.3	1988.3	2001.3
25°	1872.3	1881.8	1898.4	1924.4	1939.8
27.5°	1798.9	1809.6	1825.0	1856.9	1871.1
30°	1718.5	1725.6	1748.0	1777.6	1794.2
32.5°	1633.2	1640.4	1659.3	1694.8	1709.0
35°	1545.7	1552.7	1570.5	1602.4	1619.0
37.5°	1451.0	1456.9	1478.2	1503.0	1520.8
40°	1351.6	1359.8	1374.0	1403.7	1419.0
42.5°	1254.6	1258.1	1273.5	1303.1	1314.9
45°	1155.2	1156.3	1172.9	1196.5	1207.2
47.5°	1052.1	1054.5	1074.7	1088.8	1099.5
50°	956.3	957.4	971.6	984.7	996.5
52.5°	860.4	860.4	867.5	881.8	897.1
55°	770.5	769.3	772.8	785.9	795.3
57.5°	685.2	684.0	688.8	697.1	704.2
60°	602.4	600.0	604.8	609.5	618.9
62.5°	529.1	531.4	525.5	532.6	539.6
65°	464.0	461.6	454.5	458.0	465.1
67.5°	408.3	404.8	392.9	395.3	403.6
70°	357.4	350.3	337.3	337.3	343.2
72.5°	311.2	304.2	287.6	288.8	291.1
75°	272.2	260.4	246.1	241.4	247.3
77.5°	229.6	220.2	207.1	203.6	206.0
80°	189.4	182.2	166.8	162.1	165.7
82.5°	150.3	144.4	126.7	123.1	124.3
85°	104.1	102.9	88.8	81.7	84.0
87.5°	55.6	56.8	46.2	41.5	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)