

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: P234107

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

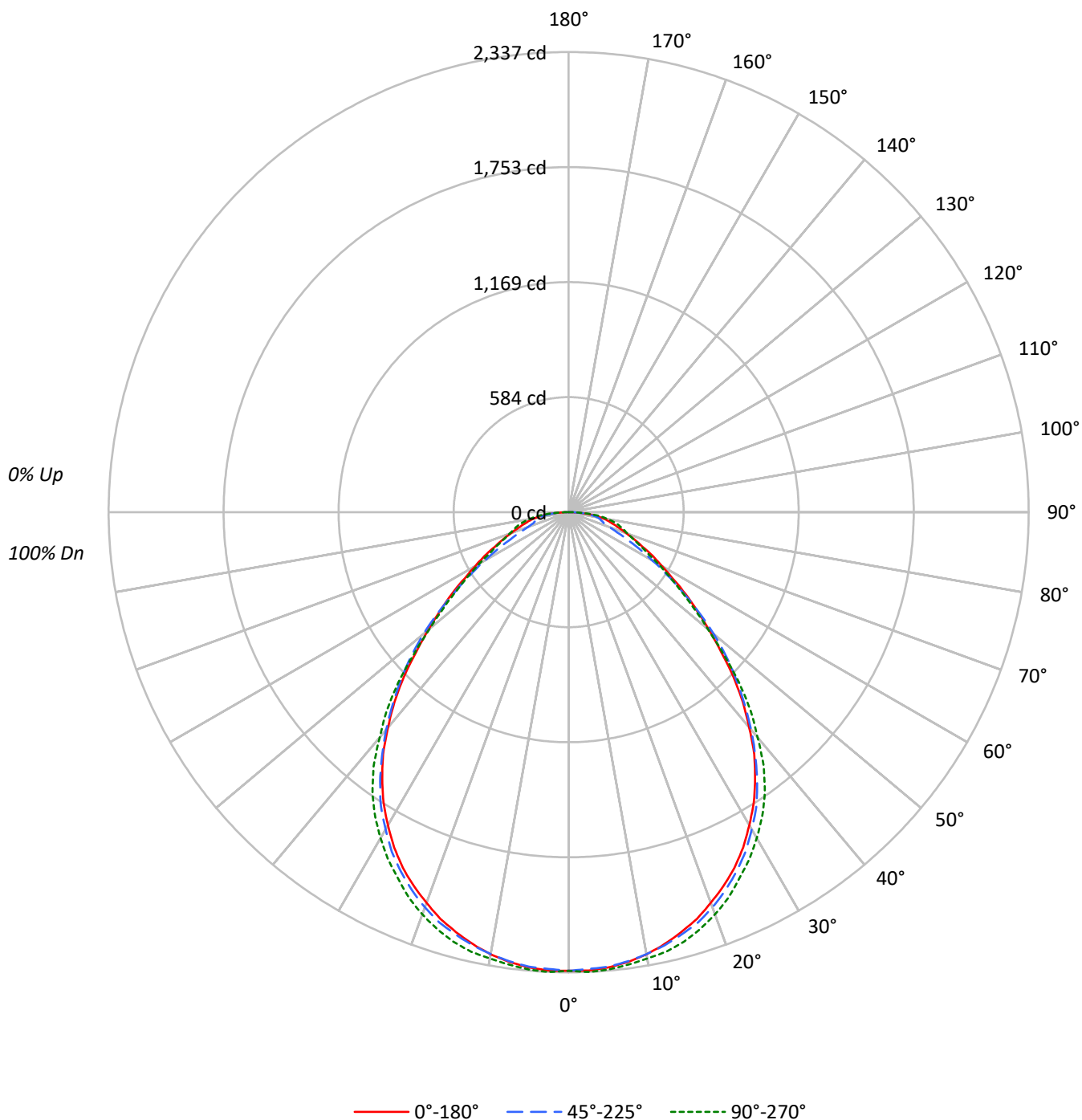
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97		99	96	94			95	93	91			92
2	101	94	87	82	99	92	86	81		88	84	79			85	81	78			82
3	93	84	76	70	91	82	75	70		79	73	68			76	71	67			74
4	86	75	67	61	84	74	66	60		71	65	60			69	63	59			67
5	80	68	59	53	78	67	59	53		65	58	53			63	57	52			61
6	74	62	53	47	72	61	53	47		59	52	47			57	51	46			56
7	69	56	48	42	67	55	48	42		54	47	42			53	46	42			51
8	64	52	44	38	63	51	43	38		50	43	38			48	42	38			47
9	60	48	40	35	59	47	40	35		46	39	34			45	39	34			44
10	57	44	37	32	55	44	36	32		43	36	31			42	36	31			41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7458	7458	7458
5°	7460	7449	7494
10°	7415	7411	7485
15°	7321	7360	7490
20°	7195	7280	7408
25°	7042	7121	7251
30°	6787	6879	7067
35°	6454	6528	6791
40°	5966	6030	6243
45°	5360	5456	5542
50°	4634	4799	4587
55°	4043	3938	3885
60°	3502	3153	3365
65°	3130	2475	3022
70°	2903	2051	2980
75°	2899	2167	3310
80°	3209	2728	3733
85°	3351	2958	4218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	4.3
10°-20°	627.7	12.3
20°-30°	928.3	18.3
30°-40°	1047.6	20.6
40°-50°	923.5	18.2
50°-60°	633.5	12.5
60°-70°	373.8	7.4
70°-80°	233.3	4.6
80°-90°	97.3	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°	1776.4	34.9
0°-40°	2823.9	55.5
0°-60°	4380.9	86.1
0°-90°	5085.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2320	2316	2317	2325	2331	220
15°	2208	2210	2220	2247	2259	622
25°	1993	2000	2015	2041	2052	915
35°	1651	1665	1670	1710	1737	1029
45°	1183	1189	1205	1212	1224	909
55°	724	706	705	682	696	650
65°	413	363	327	378	399	416
75°	234	211	175	245	268	251
85°	91	85	80	105	115	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2328.8	2328.8	2328.8	2328.8	2328.8
2.5°	2330.0	2324.1	2321.7	2331.2	2337.1
5°	2320.5	2315.8	2317.0	2325.3	2331.2
7.5°	2303.9	2300.4	2300.4	2312.3	2318.2
10°	2280.3	2279.1	2279.1	2293.4	2301.6
12.5°	2247.2	2248.4	2253.1	2272.0	2286.2
15°	2208.1	2210.5	2219.9	2247.2	2259.0
17.5°	2165.6	2165.6	2184.5	2205.7	2219.9
20°	2111.1	2114.7	2136.0	2159.6	2173.8
22.5°	2055.5	2061.4	2079.1	2106.4	2119.4
25°	1992.8	1999.8	2015.2	2041.3	2052.0
27.5°	1919.3	1928.9	1945.4	1964.3	1986.9
30°	1835.4	1849.6	1860.2	1886.2	1911.1
32.5°	1750.2	1763.2	1775.0	1802.2	1830.7
35°	1650.8	1665.0	1669.7	1709.9	1737.1
37.5°	1549.0	1554.9	1557.3	1597.5	1627.1
40°	1427.1	1439.0	1442.5	1474.5	1493.4
42.5°	1310.0	1314.7	1321.8	1345.5	1367.9
45°	1183.4	1189.3	1204.7	1211.7	1223.6
47.5°	1050.8	1068.6	1086.4	1063.8	1065.0
50°	930.1	944.3	963.3	920.6	920.6
52.5°	822.4	829.6	830.7	795.2	802.3
55°	724.2	706.5	705.3	681.6	695.8
57.5°	626.0	602.3	594.0	587.0	603.5
60°	546.7	504.1	492.3	502.9	525.4
62.5°	481.6	427.2	404.7	431.9	452.0
65°	413.0	363.3	326.6	377.5	398.8
67.5°	359.7	312.4	265.1	337.3	352.6
70°	310.0	273.4	219.0	306.5	318.3
72.5°	269.8	241.4	189.4	276.9	291.1
75°	234.3	210.6	175.1	244.9	267.5
77.5°	205.9	179.8	163.3	211.8	239.0
80°	174.0	147.9	147.9	177.5	202.4
82.5°	137.3	115.9	119.5	144.4	162.1
85°	91.2	85.2	80.5	105.4	114.8
87.5°	46.2	47.3	42.6	54.4	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)