

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: P213791

Luminaire Tested: **22GR-LD5-40-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213791
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-LD5-40-A-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4102.3 lumens
Efficiency: N/A
Efficacy: 105.7 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

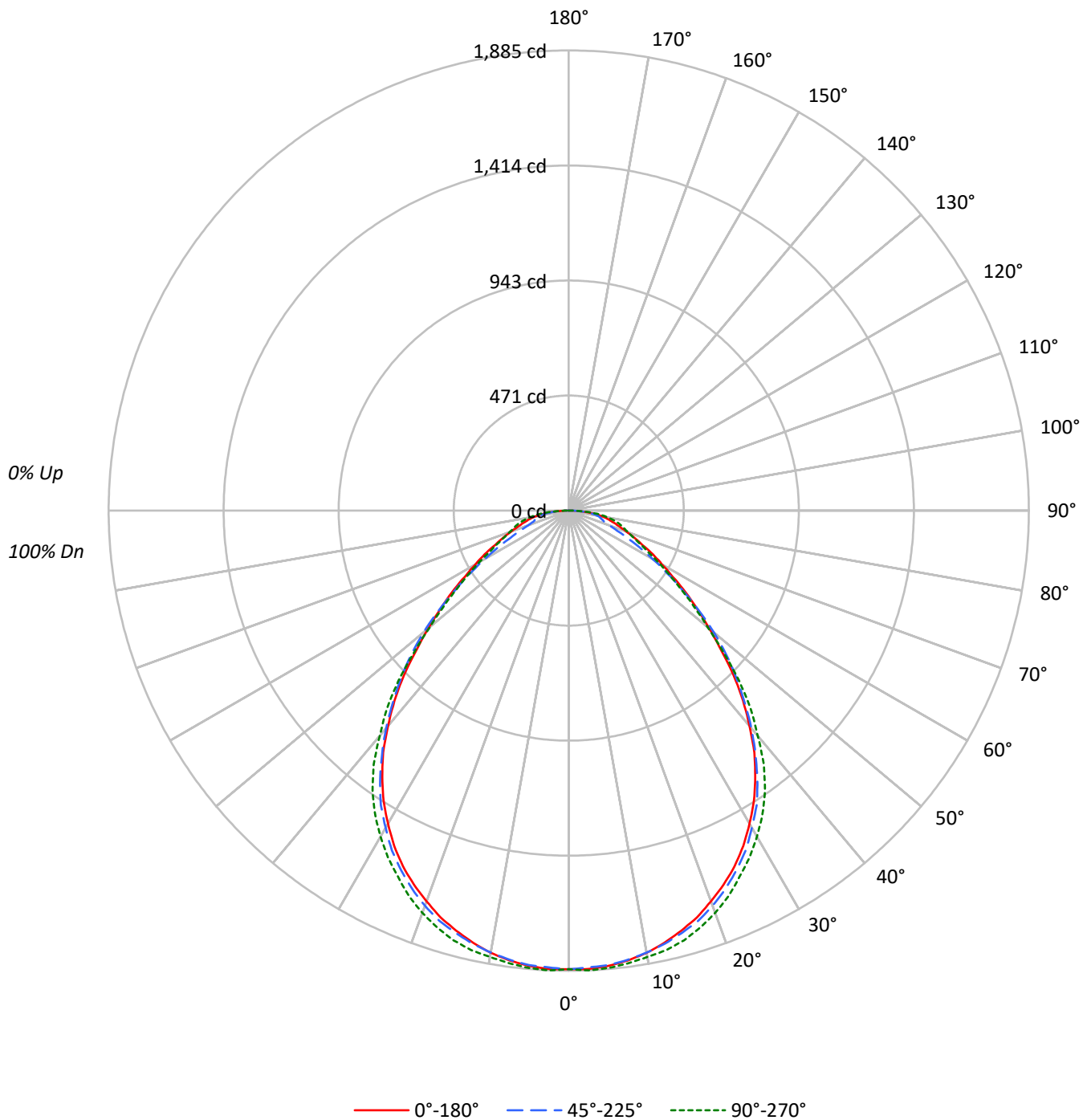
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6017	6017	6017
5°	6018	6009	6046
10°	5982	5979	6038
15°	5906	5938	6042
20°	5804	5872	5977
25°	5681	5745	5849
30°	5476	5549	5701
35°	5206	5266	5479
40°	4813	4865	5036
45°	4323	4401	4471
50°	3738	3871	3700
55°	3262	3176	3134
60°	2825	2543	2715
65°	2525	1996	2438
70°	2342	1654	2405
75°	2339	1748	2670
80°	2587	2200	3012
85°	2701	2385	3403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	4.3
10°-20°	506.3	12.3
20°-30°	748.9	18.3
30°-40°	845.1	20.6
40°-50°	745.0	18.2
50°-60°	511.0	12.5
60°-70°	301.5	7.4
70°-80°	188.2	4.6
80°-90°	78.5	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°	1433.0	34.9
0°-40°	2278.1	55.5
0°-60°	3534.1	86.1
0°-90°	4102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1872	1868	1869	1876	1881	178
15°	1781	1783	1791	1813	1822	502
25°	1608	1613	1626	1647	1655	738
35°	1332	1343	1347	1380	1401	830
45°	955	959	972	978	987	733
55°	584	570	569	550	561	524
65°	333	293	263	304	322	336
75°	189	170	141	198	216	203
85°	74	69	65	85	93	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.7	1878.7	1878.7	1878.7	1878.7
2.5°	1879.6	1874.9	1873.0	1880.6	1885.3
5°	1872.1	1868.2	1869.1	1875.9	1880.6
7.5°	1858.7	1855.8	1855.8	1865.3	1870.1
10°	1839.6	1838.6	1838.6	1850.0	1856.8
12.5°	1812.8	1813.8	1817.6	1832.8	1844.3
15°	1781.3	1783.2	1790.9	1812.8	1822.4
17.5°	1746.9	1746.9	1762.2	1779.4	1790.9
20°	1703.1	1705.9	1723.1	1742.2	1753.7
22.5°	1658.2	1662.9	1677.3	1699.2	1709.7
25°	1607.6	1613.3	1625.7	1646.7	1655.3
27.5°	1548.4	1556.0	1569.4	1584.7	1602.8
30°	1480.7	1492.0	1500.7	1521.7	1541.7
32.5°	1411.9	1422.4	1432.0	1453.9	1476.8
35°	1331.7	1343.2	1347.0	1379.5	1401.4
37.5°	1249.6	1254.3	1256.3	1288.7	1312.6
40°	1151.2	1160.8	1163.7	1189.5	1204.7
42.5°	1056.8	1060.6	1066.3	1085.4	1103.6
45°	954.6	959.4	971.8	977.5	987.1
47.5°	847.7	862.0	876.3	858.2	859.1
50°	750.3	761.8	777.0	742.7	742.7
52.5°	663.5	669.2	670.1	641.6	647.2
55°	584.2	569.9	568.9	549.8	561.3
57.5°	505.0	485.9	479.2	473.5	486.8
60°	441.1	406.7	397.1	405.7	423.9
62.5°	388.6	344.6	326.5	348.4	364.6
65°	333.2	293.1	263.4	304.5	321.7
67.5°	290.2	252.0	213.8	272.1	284.5
70°	250.1	220.5	176.6	247.2	256.8
72.5°	217.7	194.7	152.7	223.4	234.9
75°	189.0	169.9	141.3	197.7	215.8
77.5°	166.1	145.1	131.8	170.9	192.8
80°	140.3	119.3	119.3	143.2	163.3
82.5°	110.7	93.5	96.5	116.5	130.8
85°	73.5	68.7	64.9	85.0	92.6
87.5°	37.2	38.2	34.4	44.0	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)