

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: P213771

Luminaire Tested: **22GR-LD5-43-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213771
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-LD5-43-A-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3738.4 lumens
Efficiency: N/A
Efficacy: 93.2 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

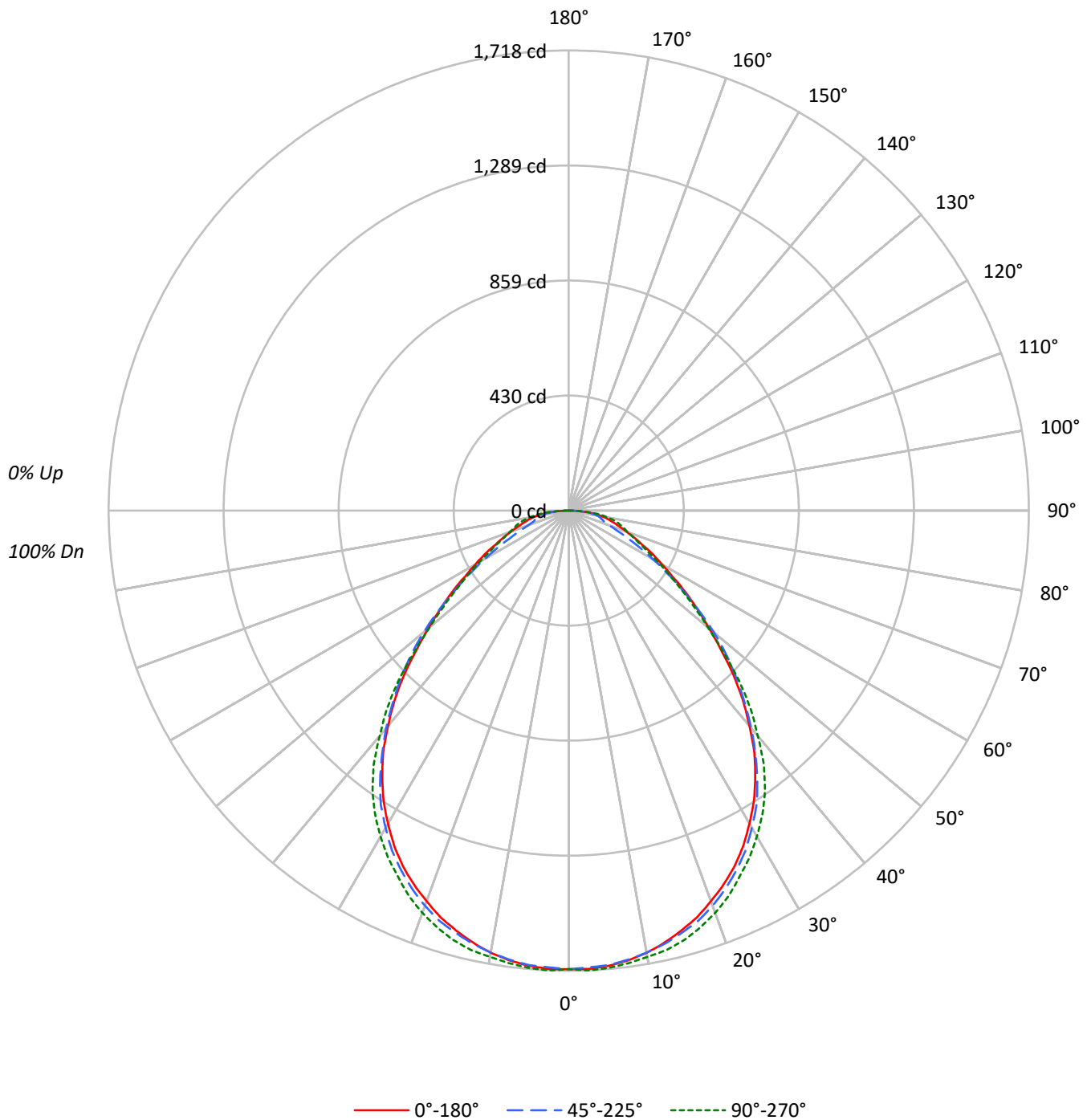
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5483	5483	5483
5°	5484	5476	5509
10°	5451	5449	5502
15°	5382	5411	5506
20°	5289	5352	5446
25°	5177	5235	5330
30°	4990	5057	5196
35°	4744	4799	4993
40°	4386	4433	4590
45°	3940	4011	4074
50°	3407	3528	3372
55°	2973	2895	2856
60°	2574	2318	2474
65°	2301	1819	2222
70°	2134	1507	2191
75°	2132	1592	2433
80°	2359	2005	2744
85°	2462	2175	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	4.3
10°-20°	461.4	12.3
20°-30°	682.5	18.3
30°-40°	770.1	20.6
40°-50°	678.9	18.2
50°-60°	465.7	12.5
60°-70°	274.8	7.4
70°-80°	171.5	4.6
80°-90°	71.5	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°	1305.9	34.9
0°-40°	2076.0	55.5
0°-60°	3220.6	86.1
0°-90°	3738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1706	1702	1703	1709	1714	162
15°	1623	1625	1632	1652	1661	458
25°	1465	1470	1482	1501	1508	673
35°	1214	1224	1228	1257	1277	756
45°	870	874	886	891	900	668
55°	532	519	518	501	512	478
65°	304	267	240	278	293	306
75°	172	155	129	180	197	185
85°	67	63	59	77	84	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.1	1712.1	1712.1	1712.1	1712.1
2.5°	1712.9	1708.6	1706.8	1713.8	1718.1
5°	1706.0	1702.5	1703.4	1709.4	1713.8
7.5°	1693.8	1691.2	1691.2	1699.9	1704.3
10°	1676.4	1675.5	1675.5	1685.9	1692.0
12.5°	1652.1	1652.9	1656.4	1670.3	1680.8
15°	1623.3	1625.1	1632.0	1652.1	1660.7
17.5°	1592.0	1592.0	1606.0	1621.6	1632.0
20°	1552.0	1554.6	1570.3	1587.6	1598.1
22.5°	1511.1	1515.5	1528.5	1548.5	1558.1
25°	1465.0	1470.3	1481.5	1500.7	1508.5
27.5°	1411.1	1418.1	1430.2	1444.1	1460.6
30°	1349.3	1359.7	1367.6	1386.7	1405.0
32.5°	1286.6	1296.2	1305.0	1324.9	1345.8
35°	1213.5	1224.0	1227.5	1257.1	1277.1
37.5°	1138.7	1143.1	1144.8	1174.4	1196.2
40°	1049.2	1057.9	1060.5	1083.9	1097.9
42.5°	963.0	966.6	971.7	989.2	1005.7
45°	870.0	874.3	885.6	890.8	899.6
47.5°	772.5	785.5	798.6	782.1	782.9
50°	683.8	694.2	708.1	676.8	676.8
52.5°	604.6	609.8	610.7	584.6	589.8
55°	532.4	519.4	518.5	501.1	511.5
57.5°	460.2	442.8	436.7	431.5	443.7
60°	401.9	370.6	361.9	369.7	386.2
62.5°	354.1	314.1	297.6	317.5	332.3
65°	303.6	267.1	240.1	277.5	293.2
67.5°	264.4	229.7	194.9	247.9	259.2
70°	227.9	201.0	160.9	225.3	234.0
72.5°	198.3	177.5	139.2	203.6	214.0
75°	172.3	154.9	128.7	180.1	196.6
77.5°	151.4	132.3	120.1	155.7	175.7
80°	127.9	108.7	108.7	130.5	148.8
82.5°	100.9	85.2	87.9	106.1	119.2
85°	67.0	62.6	59.2	77.4	84.4
87.5°	34.0	34.8	31.3	40.0	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)