

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: P213666

Luminaire Tested: **22GR-LD5-40-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F1-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

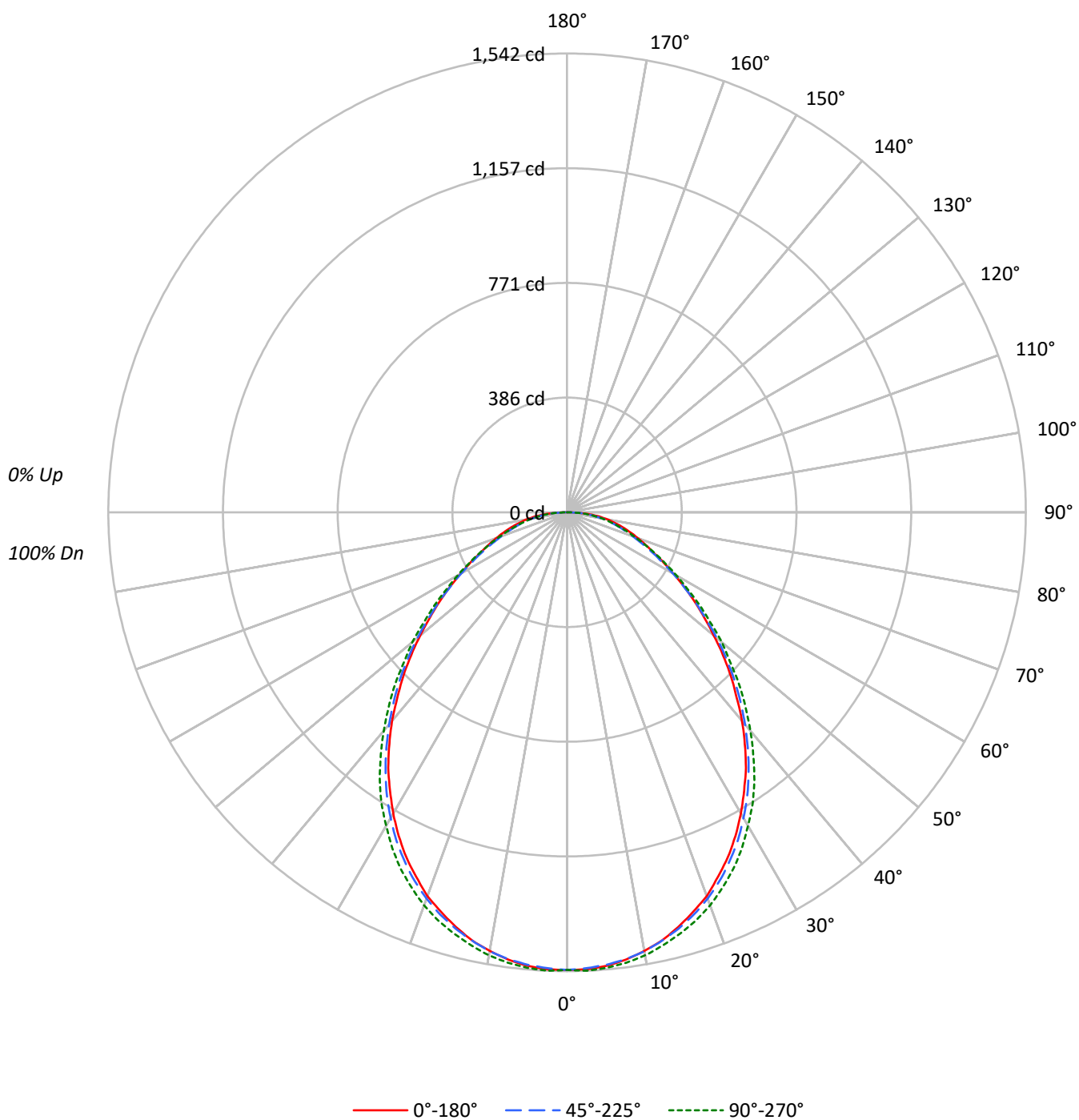
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4925	4925	4925
5°	4918	4905	4939
10°	4866	4871	4916
15°	4784	4802	4860
20°	4678	4707	4789
25°	4520	4570	4672
30°	4322	4387	4496
35°	4098	4157	4291
40°	3824	3887	4008
45°	3528	3597	3705
50°	3209	3268	3383
55°	2917	2940	3029
60°	2645	2625	2722
65°	2433	2367	2464
70°	2363	2192	2273
75°	2393	2146	2175
80°	2549	2195	2224
85°	2818	2348	2322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	4.2
10°-20°	408.8	11.7
20°-30°	596.0	17.1
30°-40°	666.2	19.1
40°-50°	612.7	17.6
50°-60°	474.7	13.6
60°-70°	318.2	9.1
70°-80°	190.4	5.5
80°-90°	71.2	2.0
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°	1149.9	33.0
0°-40°	1816.1	52.1
0°-60°	2903.5	83.4
0°-90°	3483.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3483.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1530	1527	1526	1532	1536	145
15°	1443	1444	1448	1460	1466	406
25°	1279	1282	1293	1312	1322	587
35°	1048	1050	1063	1084	1098	653
45°	779	781	794	806	818	600
55°	522	523	526	534	542	469
65°	321	319	312	316	325	323
75°	193	185	173	172	176	205
85°	77	78	64	60	63	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1537.1	1533.9	1533.1	1537.9	1541.9
5°	1529.9	1526.7	1525.9	1532.3	1536.3
7.5°	1516.3	1513.9	1514.7	1521.2	1526.7
10°	1496.3	1495.6	1498.0	1505.9	1511.6
12.5°	1474.0	1472.4	1474.8	1485.2	1490.7
15°	1442.8	1444.4	1448.4	1459.6	1466.0
17.5°	1408.4	1410.1	1417.3	1428.4	1438.8
20°	1372.5	1371.7	1381.3	1396.5	1405.3
22.5°	1325.4	1329.4	1340.5	1356.5	1365.4
25°	1279.1	1282.2	1293.4	1311.8	1322.2
27.5°	1225.5	1231.1	1243.1	1260.6	1272.6
30°	1168.8	1173.6	1186.3	1206.3	1215.9
32.5°	1107.3	1113.7	1127.3	1148.9	1160.8
35°	1048.1	1049.8	1063.4	1084.1	1097.7
37.5°	981.1	985.1	997.8	1021.0	1028.2
40°	914.8	917.9	929.9	949.1	958.7
42.5°	843.6	849.2	862.0	876.4	887.6
45°	778.9	781.3	794.2	806.1	818.0
47.5°	711.0	713.4	724.6	737.4	742.2
50°	644.0	647.1	655.9	668.7	679.1
52.5°	581.6	583.2	587.2	601.5	606.4
55°	522.5	523.3	526.5	534.5	542.5
57.5°	466.6	465.8	465.0	472.2	479.3
60°	413.0	411.4	409.9	415.4	425.0
62.5°	365.9	364.3	357.9	364.3	372.3
65°	321.1	318.8	312.4	315.6	325.1
67.5°	286.0	281.2	270.8	274.8	282.0
70°	252.4	246.1	234.1	237.2	242.8
72.5°	222.9	213.4	202.9	203.7	209.4
75°	193.4	185.4	173.4	171.8	175.8
77.5°	165.4	159.0	146.2	143.8	147.0
80°	138.2	131.8	119.0	114.2	120.6
82.5°	108.6	106.2	91.9	88.7	91.0
85°	76.7	77.5	63.9	59.9	63.2
87.5°	39.2	40.7	32.7	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)