

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: P257164

Luminaire Tested: **22GR-LD5-40-F125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257164
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-F125-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.4 lumens
Efficiency: N/A
Efficacy: 83.3 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

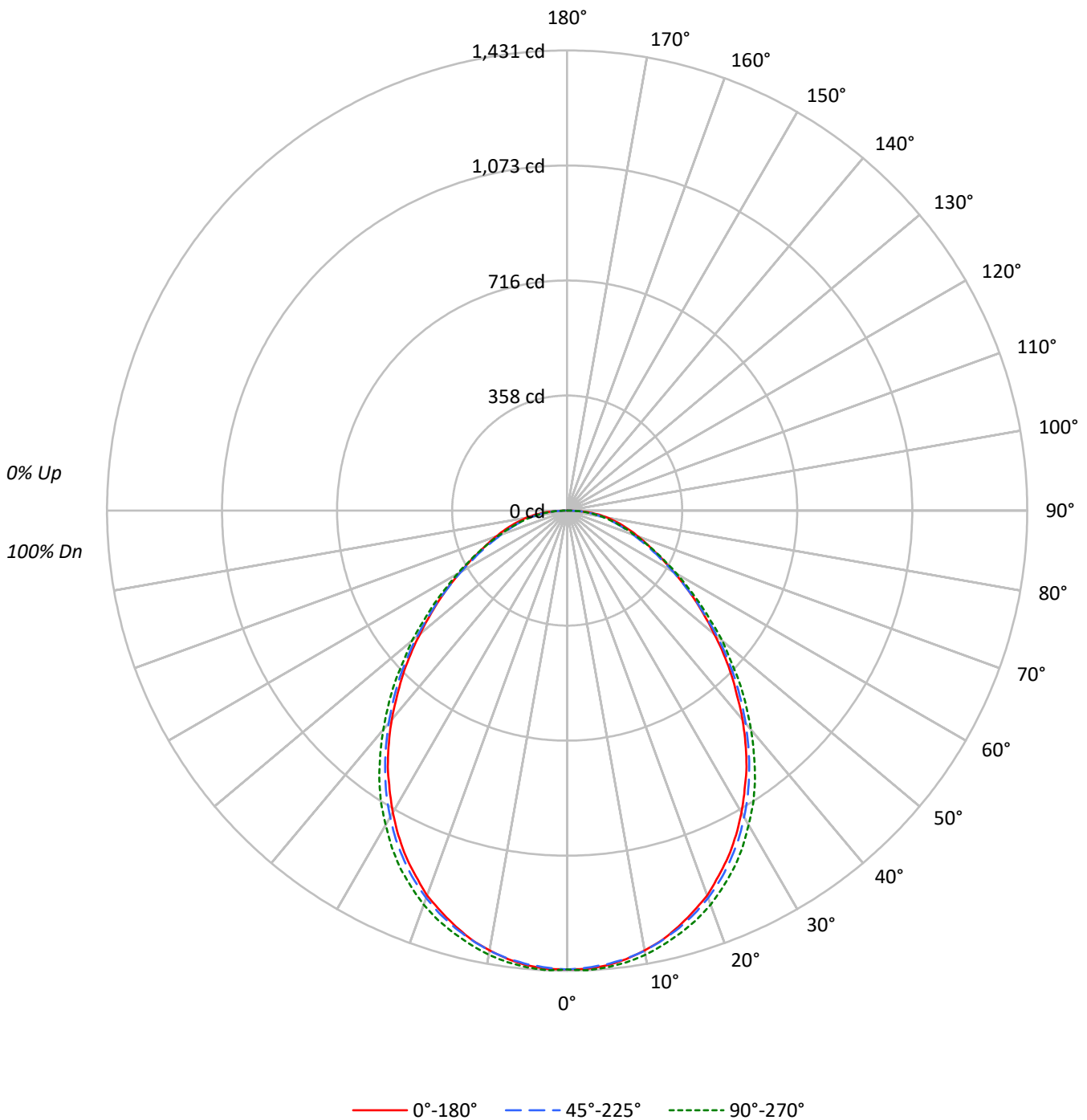
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4570	4570	4570
5°	4564	4552	4583
10°	4516	4520	4561
15°	4439	4456	4510
20°	4341	4368	4444
25°	4194	4241	4336
30°	4011	4071	4173
35°	3803	3858	3982
40°	3549	3608	3719
45°	3274	3337	3438
50°	2977	3033	3140
55°	2707	2728	2811
60°	2455	2436	2526
65°	2259	2197	2287
70°	2194	2034	2110
75°	2220	1991	2018
80°	2364	2038	2064
85°	2616	2179	2150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.2
10°-20°	379.4	11.7
20°-30°	553.1	17.1
30°-40°	618.3	19.1
40°-50°	568.6	17.6
50°-60°	440.5	13.6
60°-70°	295.3	9.1
70°-80°	176.7	5.5
80°-90°	66.1	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°	1067.1	33.0
0°-40°	1685.3	52.1
0°-60°	2694.4	83.4
0°-90°	3232.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1420	1417	1416	1422	1426	135
15°	1339	1340	1344	1354	1360	377
25°	1187	1190	1200	1217	1227	545
35°	973	974	987	1006	1019	606
45°	723	725	737	748	759	557
55°	485	486	489	496	503	435
65°	298	296	290	293	302	300
75°	179	172	161	159	163	190
85°	71	72	59	56	58	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1426.4	1423.4	1422.7	1427.1	1430.8
5°	1419.7	1416.8	1416.1	1422.0	1425.7
7.5°	1407.1	1404.9	1405.6	1411.5	1416.8
10°	1388.6	1387.8	1390.1	1397.4	1402.7
12.5°	1367.8	1366.4	1368.6	1378.2	1383.4
15°	1338.9	1340.4	1344.1	1354.5	1360.4
17.5°	1307.0	1308.6	1315.2	1325.5	1335.2
20°	1273.7	1273.0	1281.8	1295.9	1304.0
22.5°	1229.9	1233.6	1244.0	1258.9	1267.0
25°	1186.9	1189.9	1200.3	1217.3	1227.0
27.5°	1137.3	1142.4	1153.6	1169.9	1181.0
30°	1084.6	1089.0	1100.9	1119.5	1128.4
32.5°	1027.5	1033.4	1046.1	1066.1	1077.2
35°	972.7	974.2	986.8	1006.1	1018.6
37.5°	910.4	914.1	925.9	947.5	954.2
40°	848.9	851.8	863.0	880.8	889.6
42.5°	782.9	788.1	799.9	813.3	823.7
45°	722.8	725.0	736.9	748.0	759.2
47.5°	659.9	662.1	672.4	684.3	688.7
50°	597.5	600.5	608.7	620.5	630.2
52.5°	539.7	541.2	544.9	558.3	562.7
55°	484.9	485.6	488.6	496.0	503.4
57.5°	433.0	432.2	431.5	438.1	444.8
60°	383.3	381.8	380.3	385.5	394.4
62.5°	339.6	338.1	332.1	338.1	345.5
65°	298.1	295.8	289.9	292.8	301.8
67.5°	265.4	260.9	251.3	255.0	261.7
70°	234.3	228.4	217.2	220.2	225.3
72.5°	206.8	197.9	188.3	189.0	194.3
75°	179.4	172.0	160.9	159.4	163.1
77.5°	153.5	147.5	135.7	133.4	136.4
80°	128.2	122.3	110.5	106.0	111.9
82.5°	100.9	98.6	85.3	82.3	84.5
85°	71.2	71.9	59.3	55.6	58.5
87.5°	36.3	37.8	30.4	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)