

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: P#

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1569.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

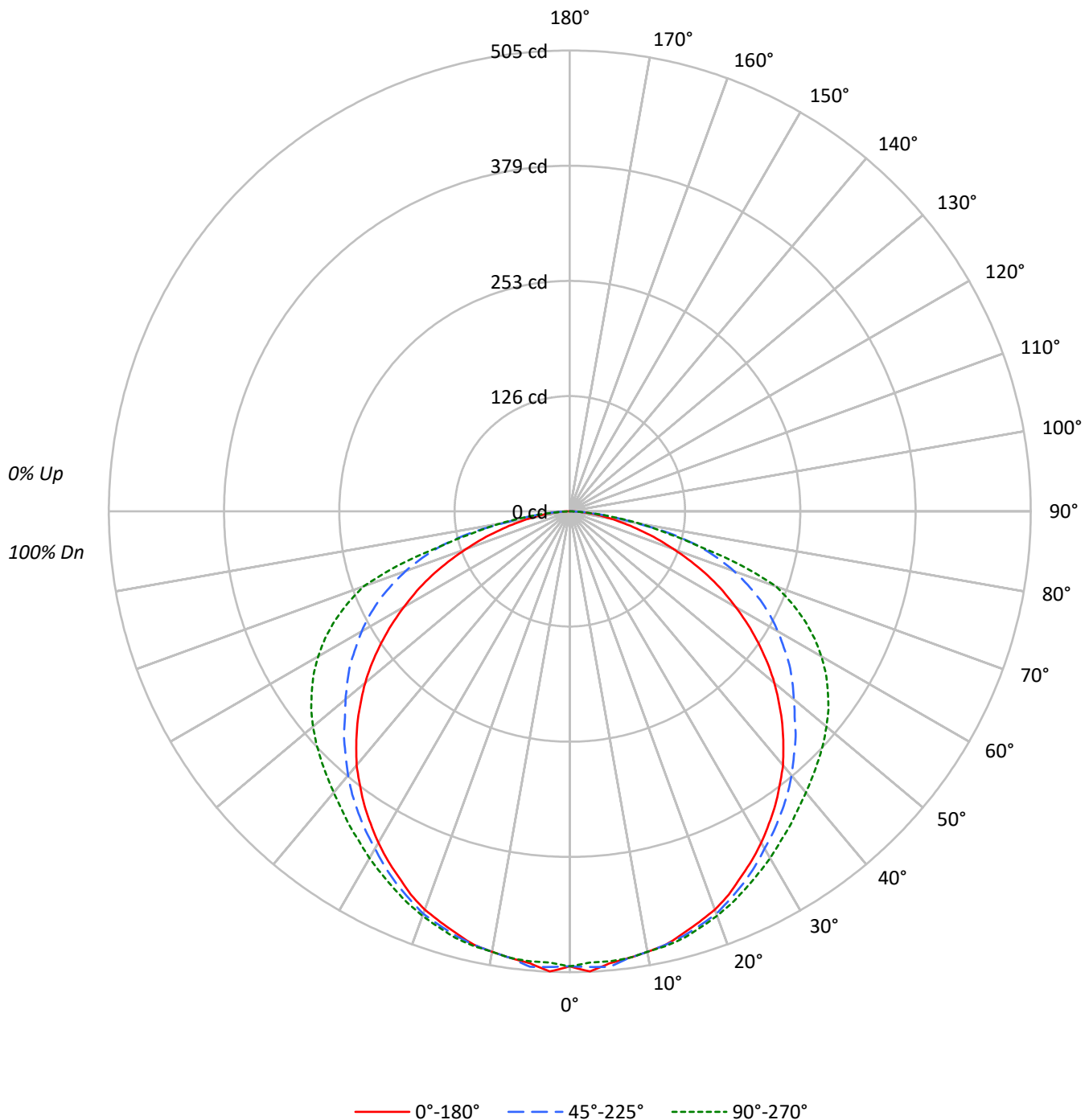
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1342	1342	1342
5°	1338	1345	1331
10°	1327	1323	1327
15°	1317	1317	1331
20°	1306	1310	1327
25°	1284	1293	1323
30°	1267	1274	1326
35°	1246	1263	1335
40°	1225	1253	1356
45°	1193	1244	1396
50°	1156	1238	1450
55°	1105	1252	1511
60°	1039	1262	1576
65°	960	1274	1634
70°	835	1261	1662
75°	694	1194	1261
80°	545	795	942
85°	383	417	430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	3.0
10°-20°	136.0	8.7
20°-30°	207.2	13.2
30°-40°	253.5	16.1
40°-50°	272.8	17.4
50°-60°	264.2	16.8
60°-70°	223.8	14.3
70°-80°	135.3	8.6
80°-90°	29.7	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°	390.5	24.9
0°-40°	644.0	41.0
0°-60°	1181.0	75.2
0°-90°	1569.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	497	497	501	499	495	47
15°	479	480	482	483	484	135
25°	443	445	450	454	456	204
35°	393	395	404	414	421	246
45°	329	335	350	372	385	254
55°	252	263	294	328	345	225
65°	167	185	230	267	284	164
75°	79	107	145	148	144	85
85°	20	23	24	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.6	498.6	498.6	498.6	498.6
2.5°	504.7	503.5	499.9	497.4	495.0
5°	497.4	497.4	501.1	498.6	495.0
7.5°	493.8	493.8	493.8	499.9	493.8
10°	490.1	491.3	490.1	495.0	490.1
12.5°	486.5	486.5	486.5	487.7	487.7
15°	479.1	480.4	481.6	482.8	484.0
17.5°	471.8	473.0	475.5	476.7	477.9
20°	464.5	465.7	469.4	469.4	471.8
22.5°	454.8	454.8	459.6	460.9	464.5
25°	442.6	445.0	449.9	453.5	456.0
27.5°	431.6	434.0	438.9	443.8	447.4
30°	419.4	421.8	426.7	434.0	438.9
32.5°	406.0	408.4	415.7	424.3	429.2
35°	392.6	395.0	403.6	414.5	420.6
37.5°	377.9	381.6	391.4	403.6	410.9
40°	363.3	367.0	377.9	391.4	402.3
42.5°	346.2	351.1	363.3	381.6	393.8
45°	329.2	335.3	349.9	371.9	385.3
47.5°	310.9	317.0	334.1	362.1	376.7
50°	292.6	299.9	320.6	351.1	367.0
52.5°	273.1	280.4	307.2	340.2	357.2
55°	252.4	263.3	293.8	328.0	345.0
57.5°	231.6	243.8	278.0	314.6	332.8
60°	209.7	224.3	263.3	299.9	318.2
62.5°	189.0	204.8	247.5	284.1	302.4
65°	167.0	185.3	230.4	267.0	284.1
67.5°	143.9	167.0	210.9	246.3	263.3
70°	120.7	147.5	191.4	224.3	240.2
72.5°	100.0	128.0	169.5	197.5	197.5
75°	79.2	107.3	145.1	147.5	143.9
77.5°	61.0	87.8	113.4	103.6	106.1
80°	45.1	67.1	71.9	75.6	78.0
82.5°	30.5	45.1	46.3	48.8	48.8
85°	19.5	23.2	24.4	23.2	21.9
87.5°	8.5	9.8	7.3	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)