

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-RDP-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-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

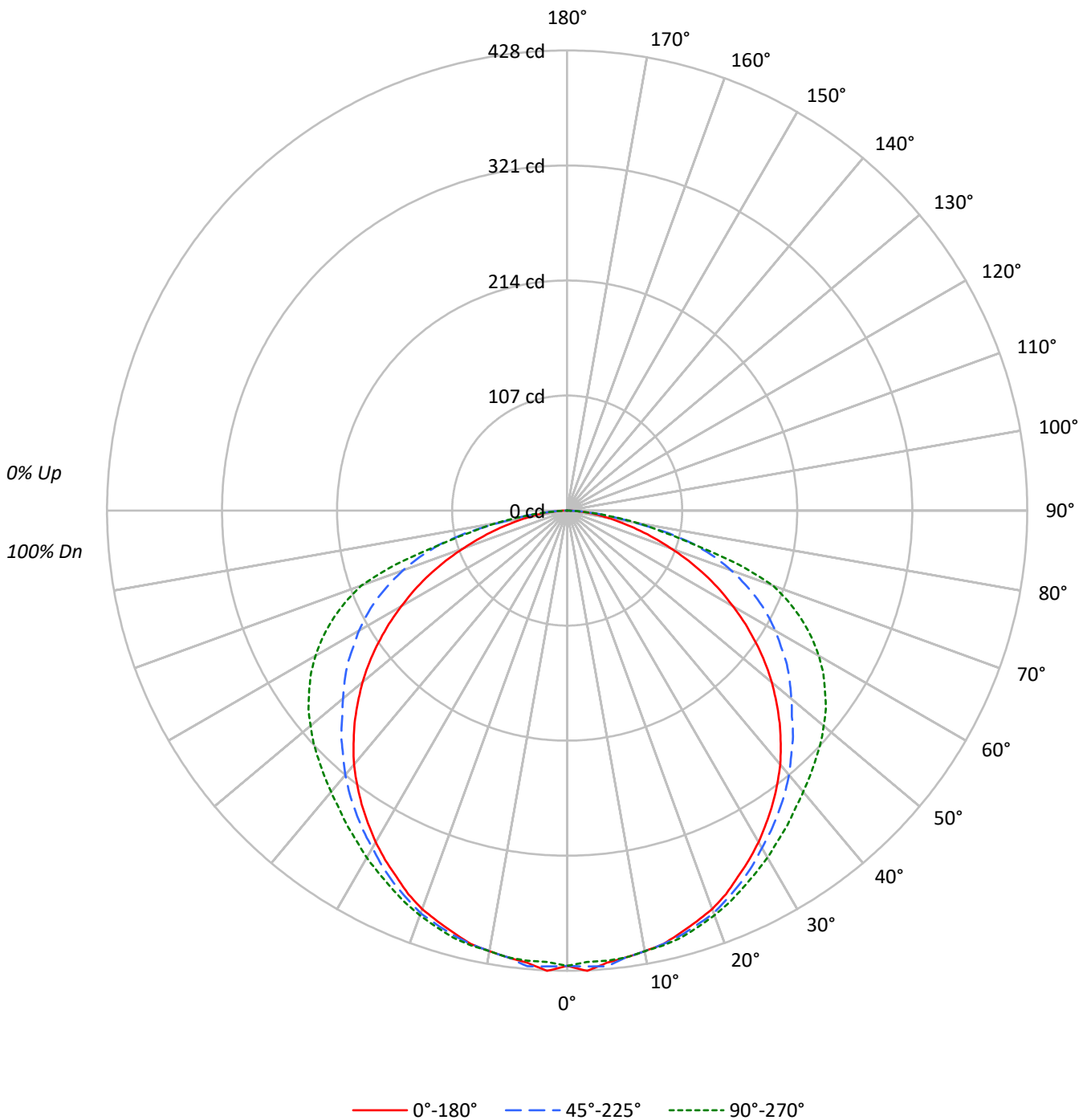
Lumens per Lamp: N/A
Luminaire Lumens: 1332.9 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

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	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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1139	1139	1139
5°	1136	1142	1130
10°	1127	1123	1127
15°	1118	1118	1130
20°	1109	1113	1127
25°	1090	1098	1123
30°	1075	1082	1126
35°	1058	1072	1133
40°	1040	1064	1152
45°	1013	1056	1186
50°	981	1051	1231
55°	938	1063	1283
60°	882	1072	1338
65°	815	1081	1387
70°	709	1071	1410
75°	590	1013	1070
80°	462	676	799
85°	326	353	365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.0
10°-20°	115.4	8.7
20°-30°	175.9	13.2
30°-40°	215.3	16.1
40°-50°	231.6	17.4
50°-60°	224.4	16.8
60°-70°	190.0	14.3
70°-80°	114.9	8.6
80°-90°	25.2	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°	331.6	24.9
0°-40°	546.8	41.0
0°-60°	1002.8	75.2
0°-90°	1332.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	422	422	425	423	420	40
15°	407	408	409	410	411	115
25°	376	378	382	385	387	173
35°	333	335	343	352	357	208
45°	280	285	297	316	327	215
55°	214	224	250	278	293	191
65°	142	157	196	227	241	140
75°	67	91	123	125	122	72
85°	17	20	21	20	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.4	423.4	423.4	423.4	423.4
2.5°	428.5	427.5	424.4	422.3	420.3
5°	422.3	422.3	425.4	423.4	420.3
7.5°	419.2	419.2	419.2	424.4	419.2
10°	416.1	417.2	416.1	420.3	416.1
12.5°	413.0	413.0	413.0	414.1	414.1
15°	406.8	407.8	408.9	409.9	411.0
17.5°	400.6	401.6	403.7	404.7	405.8
20°	394.4	395.4	398.5	398.5	400.6
22.5°	386.1	386.1	390.2	391.3	394.4
25°	375.8	377.8	382.0	385.1	387.1
27.5°	366.4	368.5	372.7	376.8	379.9
30°	356.1	358.2	362.3	368.5	372.7
32.5°	344.7	346.8	353.0	360.2	364.4
35°	333.3	335.4	342.6	351.9	357.1
37.5°	320.9	324.0	332.3	342.6	348.8
40°	308.5	311.6	320.9	332.3	341.6
42.5°	294.0	298.1	308.5	324.0	334.4
45°	279.5	284.7	297.1	315.7	327.1
47.5°	264.0	269.1	283.6	307.4	319.9
50°	248.4	254.6	272.2	298.1	311.6
52.5°	231.9	238.1	260.9	288.8	303.3
55°	214.3	223.6	249.5	278.5	292.9
57.5°	196.7	207.0	236.0	267.1	282.6
60°	178.0	190.5	223.6	254.6	270.2
62.5°	160.4	173.9	210.1	241.2	256.7
65°	141.8	157.3	195.6	226.7	241.2
67.5°	122.1	141.8	179.1	209.1	223.6
70°	102.5	125.3	162.5	190.5	203.9
72.5°	84.9	108.7	143.9	167.7	167.7
75°	67.3	91.1	123.2	125.3	122.1
77.5°	51.8	74.5	96.3	88.0	90.1
80°	38.3	56.9	61.1	64.2	66.2
82.5°	25.9	38.3	39.3	41.4	41.4
85°	16.6	19.7	20.7	19.7	18.6
87.5°	7.2	8.3	6.2	4.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)