

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-LD5-20SE-SQP-UNV-L830-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-LD5-20SE-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

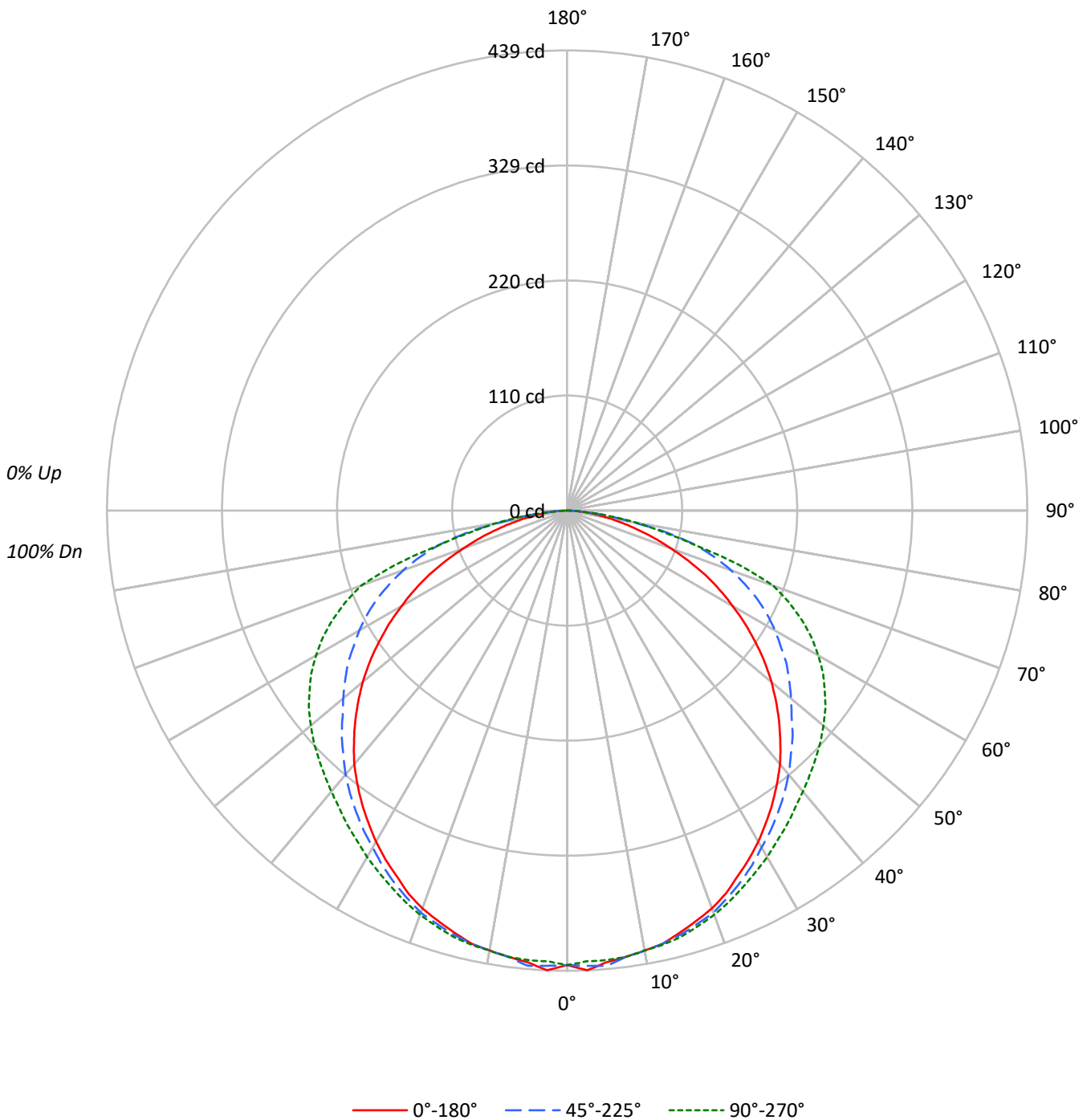
Lumens per Lamp: N/A
Luminaire Lumens: 1365.2 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.2
Input Voltage (V): NR
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	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					100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1167	1167	1167
5°	1163	1170	1158
10°	1154	1150	1154
15°	1146	1145	1157
20°	1136	1140	1154
25°	1117	1124	1150
30°	1101	1108	1153
35°	1084	1098	1161
40°	1065	1090	1180
45°	1037	1082	1215
50°	1005	1076	1261
55°	961	1089	1314
60°	903	1098	1370
65°	836	1108	1420
70°	726	1096	1445
75°	604	1038	1096
80°	473	691	819
85°	334	362	375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	3.0
10°-20°	118.2	8.7
20°-30°	180.2	13.2
30°-40°	220.5	16.1
40°-50°	237.2	17.4
50°-60°	229.8	16.8
60°-70°	194.6	14.3
70°-80°	117.7	8.6
80°-90°	25.8	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°	339.6	24.9
0°-40°	560.0	41.0
0°-60°	1027.0	75.2
0°-90°	1365.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	432	432	436	434	430	41
15°	417	418	419	420	421	118
25°	385	387	391	394	396	178
35°	341	344	351	360	366	214
45°	286	292	304	323	335	221
55°	219	229	256	285	300	196
65°	145	161	200	232	247	143
75°	69	93	126	128	125	74
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°	433.6	433.6	433.6	433.6	433.6
2.5°	438.9	437.9	434.7	432.5	430.4
5°	432.5	432.5	435.8	433.6	430.4
7.5°	429.4	429.4	429.4	434.7	429.4
10°	426.2	427.2	426.2	430.4	426.2
12.5°	423.0	423.0	423.0	424.1	424.1
15°	416.7	417.7	418.8	419.8	420.8
17.5°	410.3	411.4	413.4	414.6	415.6
20°	403.9	405.0	408.2	408.2	410.3
22.5°	395.5	395.5	399.7	400.7	403.9
25°	384.8	386.9	391.2	394.4	396.5
27.5°	375.3	377.4	381.7	385.9	389.1
30°	364.7	366.8	371.1	377.4	381.7
32.5°	353.0	355.2	361.6	369.0	373.2
35°	341.4	343.5	350.9	360.4	365.8
37.5°	328.7	331.8	340.3	350.9	357.3
40°	316.0	319.1	328.7	340.3	349.9
42.5°	301.1	305.3	316.0	331.8	342.5
45°	286.2	291.6	304.3	323.4	335.1
47.5°	270.4	275.7	290.5	314.9	327.6
50°	254.4	260.8	278.8	305.3	319.1
52.5°	237.5	243.9	267.1	295.8	310.6
55°	219.4	229.0	255.6	285.2	300.0
57.5°	201.4	212.0	241.7	273.5	289.5
60°	182.4	195.0	229.0	260.8	276.7
62.5°	164.4	178.1	215.2	247.0	263.0
65°	145.3	161.1	200.4	232.2	247.0
67.5°	125.1	145.3	183.4	214.1	229.0
70°	105.0	128.2	166.4	195.0	208.9
72.5°	86.9	111.3	147.3	171.8	171.8
75°	68.9	93.3	126.2	128.2	125.1
77.5°	53.0	76.4	98.6	90.2	92.2
80°	39.2	58.3	62.5	65.7	67.8
82.5°	26.5	39.2	40.3	42.4	42.4
85°	17.0	20.1	21.2	20.1	19.1
87.5°	7.4	8.5	6.4	4.3	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)