

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-LD5-24SE-RDP-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-LD5-24SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1382.0 lumens
Efficiency: N/A
Efficacy: 65.5 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

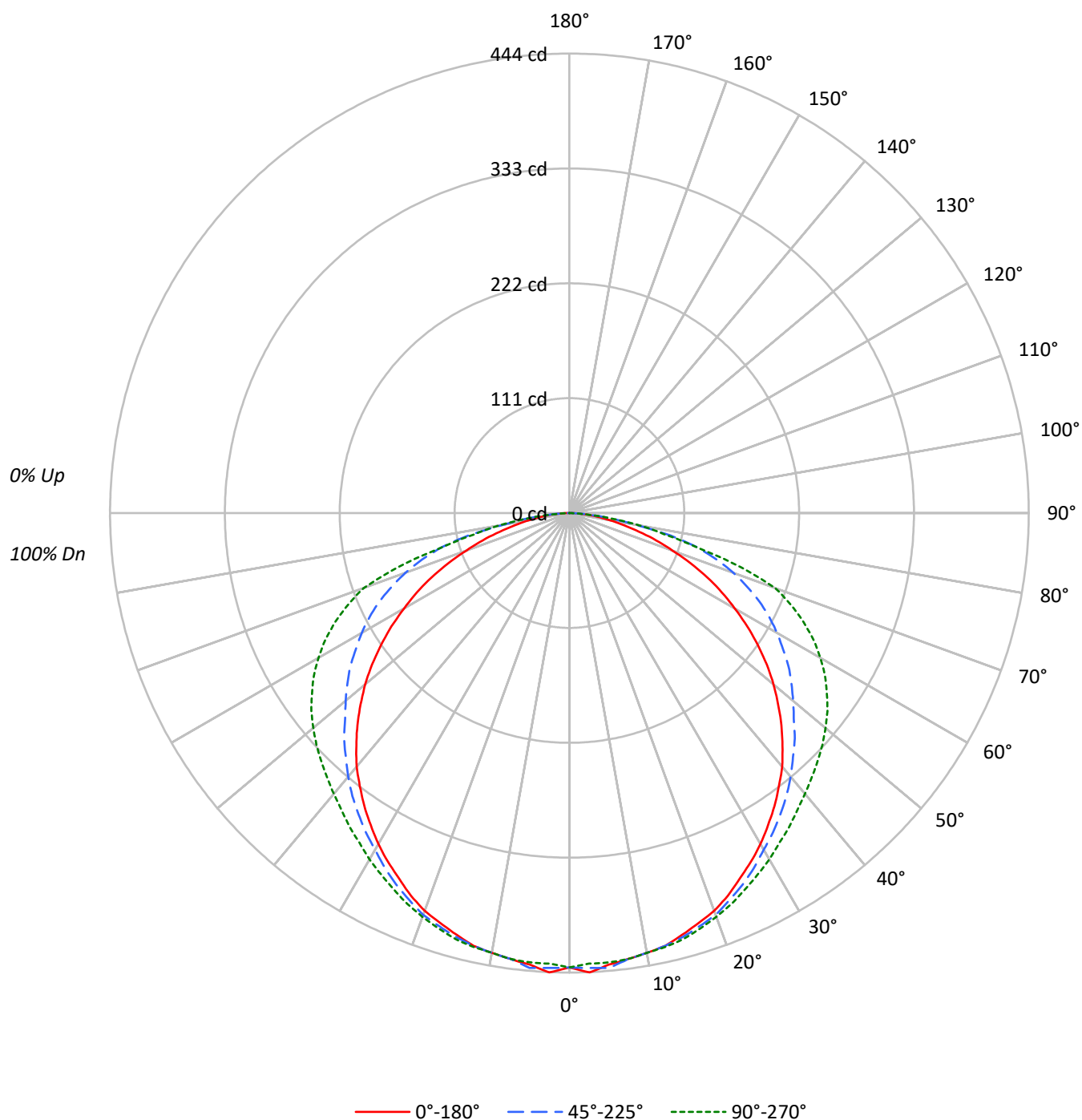
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1181	1181	1181
5°	1178	1184	1172
10°	1169	1165	1169
15°	1160	1159	1171
20°	1150	1154	1168
25°	1130	1139	1165
30°	1115	1121	1167
35°	1097	1112	1175
40°	1079	1103	1194
45°	1050	1095	1229
50°	1018	1090	1277
55°	973	1102	1330
60°	914	1111	1388
65°	846	1121	1438
70°	735	1110	1463
75°	611	1050	1109
80°	479	701	829
85°	338	367	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.0
10°-20°	119.7	8.7
20°-30°	182.4	13.2
30°-40°	223.2	16.1
40°-50°	240.2	17.4
50°-60°	232.6	16.8
60°-70°	197.0	14.3
70°-80°	119.1	8.6
80°-90°	26.2	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°	343.8	24.9
0°-40°	567.0	41.0
0°-60°	1039.7	75.2
0°-90°	1382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	438	438	441	439	436	42
15°	422	423	424	425	426	119
25°	390	392	396	399	401	180
35°	346	348	355	365	370	216
45°	290	295	308	327	339	223
55°	222	232	259	289	304	198
65°	147	163	203	235	250	145
75°	70	94	128	130	127	75
85°	17	20	22	20	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.0	439.0	439.0	439.0	439.0
2.5°	444.3	443.3	440.0	438.0	435.8
5°	438.0	438.0	441.1	439.0	435.8
7.5°	434.7	434.7	434.7	440.0	434.7
10°	431.5	432.5	431.5	435.8	431.5
12.5°	428.3	428.3	428.3	429.3	429.3
15°	421.8	422.8	424.0	425.0	426.1
17.5°	415.3	416.5	418.6	419.7	420.8
20°	409.0	410.0	413.2	413.2	415.3
22.5°	400.3	400.3	404.6	405.7	409.0
25°	389.6	391.8	396.1	399.3	401.4
27.5°	379.9	382.1	386.4	390.6	393.9
30°	369.3	371.4	375.6	382.1	386.4
32.5°	357.4	359.6	366.0	373.5	377.8
35°	345.6	347.8	355.3	364.9	370.3
37.5°	332.7	335.9	344.6	355.3	361.7
40°	319.9	323.1	332.7	344.6	354.2
42.5°	304.9	309.1	319.9	335.9	346.7
45°	289.8	295.2	308.1	327.4	339.2
47.5°	273.7	279.0	294.1	318.8	331.6
50°	257.6	264.0	282.2	309.1	323.1
52.5°	240.4	246.9	270.5	299.4	314.4
55°	222.2	231.8	258.7	288.7	303.7
57.5°	204.0	214.7	244.7	276.9	293.0
60°	184.6	197.5	231.8	264.0	280.2
62.5°	166.3	180.3	217.8	250.0	266.2
65°	147.1	163.1	202.8	235.0	250.0
67.5°	126.6	147.1	185.7	216.8	231.8
70°	106.3	129.9	168.5	197.5	211.5
72.5°	88.0	112.7	149.2	173.8	173.8
75°	69.7	94.4	127.7	129.9	126.6
77.5°	53.7	77.2	99.8	91.2	93.4
80°	39.7	59.0	63.4	66.5	68.7
82.5°	26.8	39.7	40.8	42.9	42.9
85°	17.2	20.4	21.5	20.4	19.3
87.5°	7.5	8.5	6.5	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)