

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1376.4 lumens
Efficiency: N/A
Efficacy: 84.0 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

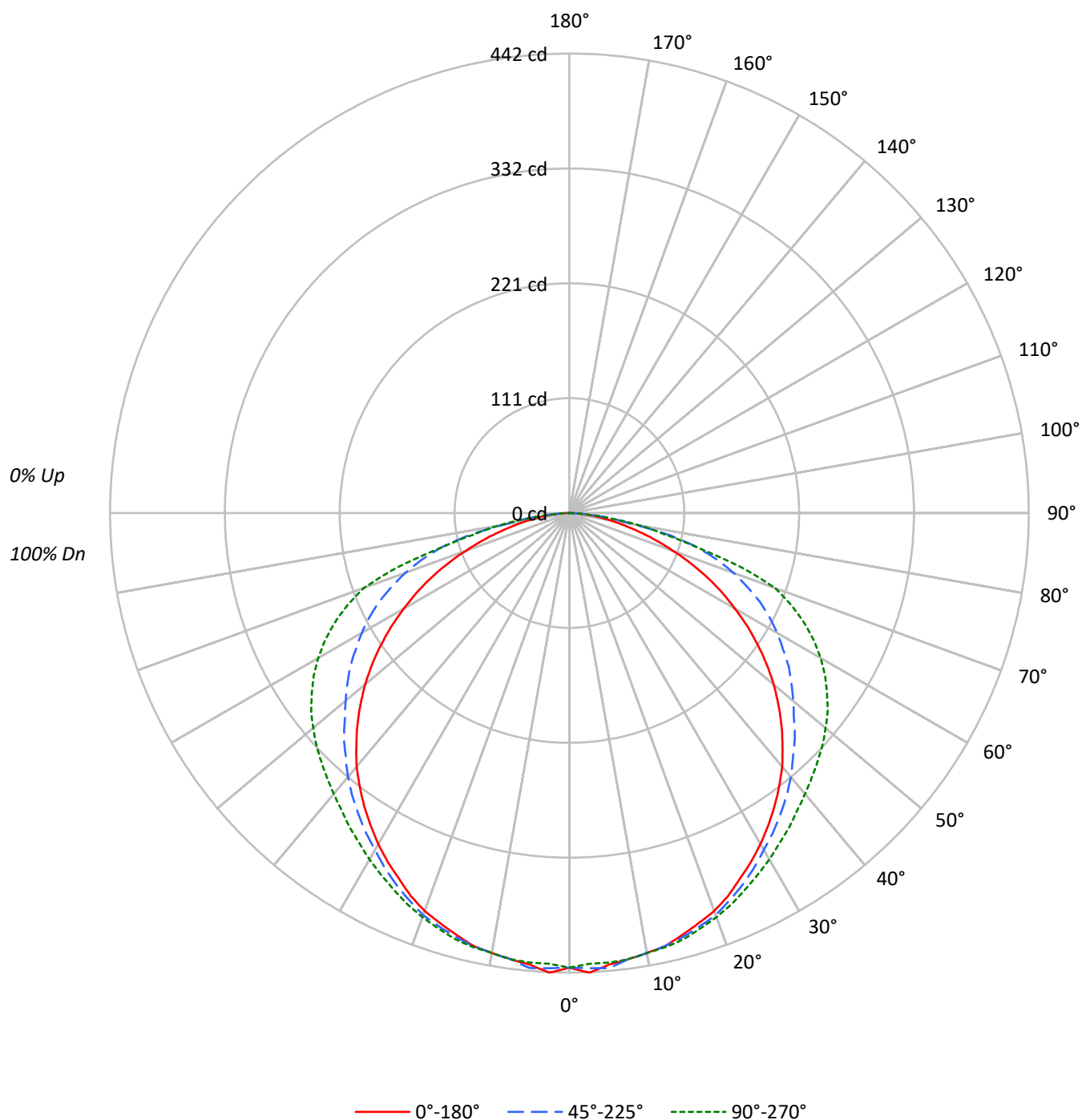
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
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°	1176	1176	1176
5°	1173	1179	1167
10°	1164	1160	1164
15°	1155	1154	1167
20°	1146	1149	1163
25°	1126	1134	1160
30°	1110	1117	1162
35°	1092	1107	1171
40°	1074	1099	1189
45°	1046	1090	1224
50°	1013	1085	1271
55°	969	1098	1325
60°	910	1107	1382
65°	842	1117	1433
70°	732	1106	1457
75°	608	1046	1106
80°	477	698	826
85°	336	365	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	3.0
10°-20°	119.2	8.7
20°-30°	181.7	13.2
30°-40°	222.3	16.1
40°-50°	239.2	17.4
50°-60°	231.7	16.8
60°-70°	196.2	14.3
70°-80°	118.6	8.6
80°-90°	26.1	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°	342.4	24.9
0°-40°	564.7	41.0
0°-60°	1035.5	75.2
0°-90°	1376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	436	436	439	437	434	41
15°	420	421	422	423	424	119
25°	388	390	394	398	400	179
35°	344	346	354	364	369	215
45°	289	294	307	326	338	222
55°	221	231	258	288	302	198
65°	146	162	202	234	249	144
75°	69	94	127	129	126	75
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°	437.2	437.2	437.2	437.2	437.2
2.5°	442.5	441.5	438.2	436.1	434.0
5°	436.1	436.1	439.3	437.2	434.0
7.5°	432.9	432.9	432.9	438.2	432.9
10°	429.7	430.7	429.7	434.0	429.7
12.5°	426.5	426.5	426.5	427.6	427.6
15°	420.1	421.1	422.2	423.3	424.4
17.5°	413.6	414.8	416.9	417.9	419.0
20°	407.3	408.3	411.5	411.5	413.6
22.5°	398.7	398.7	403.0	404.0	407.3
25°	388.0	390.2	394.4	397.7	399.8
27.5°	378.4	380.6	384.8	389.1	392.3
30°	367.7	369.8	374.1	380.6	384.8
32.5°	356.0	358.1	364.5	372.0	376.3
35°	344.2	346.4	353.8	363.5	368.8
37.5°	331.4	334.6	343.1	353.8	360.2
40°	318.5	321.8	331.4	343.1	352.7
42.5°	303.5	307.8	318.5	334.6	345.2
45°	288.6	293.9	306.8	326.0	337.8
47.5°	272.6	277.9	292.9	317.5	330.3
50°	256.5	263.0	281.1	307.8	321.8
52.5°	239.4	245.9	269.3	298.2	313.2
55°	221.3	230.8	257.6	287.6	302.5
57.5°	203.1	213.8	243.7	275.8	291.8
60°	183.8	196.6	230.8	263.0	279.0
62.5°	165.7	179.5	217.0	249.1	265.0
65°	146.4	162.4	202.1	234.1	249.1
67.5°	126.2	146.4	185.0	215.9	230.8
70°	105.8	129.3	167.9	196.6	210.6
72.5°	87.7	112.2	148.6	173.2	173.2
75°	69.4	94.0	127.2	129.3	126.2
77.5°	53.5	77.0	99.4	90.8	93.0
80°	39.5	58.8	63.1	66.3	68.4
82.5°	26.7	39.5	40.7	42.8	42.8
85°	17.1	20.3	21.4	20.3	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)