

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-RDP-UNV-L850-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-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1430.1 lumens
Efficiency: N/A
Efficacy: 83.1 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

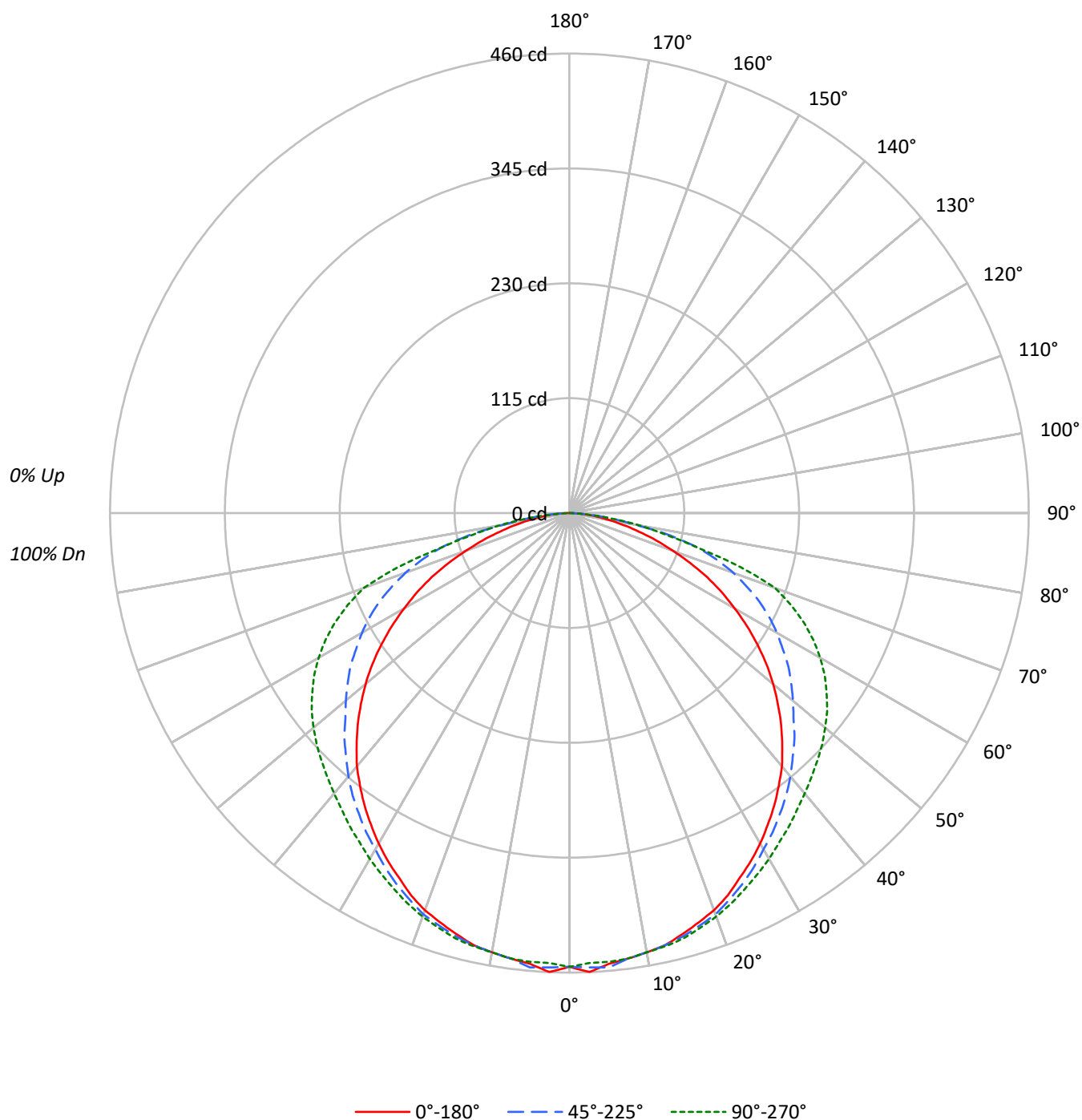
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1222	1222	1222
5°	1219	1226	1213
10°	1209	1205	1209
15°	1200	1199	1212
20°	1190	1194	1209
25°	1170	1178	1205
30°	1154	1160	1207
35°	1135	1151	1216
40°	1116	1142	1236
45°	1087	1133	1272
50°	1053	1128	1321
55°	1007	1141	1376
60°	946	1150	1436
65°	875	1161	1488
70°	760	1149	1514
75°	633	1088	1149
80°	496	724	858
85°	350	379	393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.0
10°-20°	123.9	8.7
20°-30°	188.7	13.2
30°-40°	230.9	16.1
40°-50°	248.5	17.4
50°-60°	240.7	16.8
60°-70°	203.9	14.3
70°-80°	123.3	8.6
80°-90°	27.1	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°	355.7	24.9
0°-40°	586.7	41.0
0°-60°	1075.9	75.2
0°-90°	1430.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	453	453	456	454	451	43
15°	436	438	439	440	441	123
25°	403	405	410	413	415	186
35°	358	360	368	378	383	224
45°	300	305	319	339	351	231
55°	230	240	268	299	314	205
65°	152	169	210	243	259	150
75°	72	98	132	134	131	78
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.2	454.2	454.2	454.2	454.2
2.5°	459.8	458.7	455.3	453.1	450.9
5°	453.1	453.1	456.5	454.2	450.9
7.5°	449.8	449.8	449.8	455.3	449.8
10°	446.5	447.6	446.5	450.9	446.5
12.5°	443.1	443.1	443.1	444.2	444.2
15°	436.5	437.6	438.7	439.8	440.9
17.5°	429.8	430.9	433.1	434.2	435.4
20°	423.1	424.2	427.6	427.6	429.8
22.5°	414.3	414.3	418.7	419.8	423.1
25°	403.1	405.4	409.8	413.1	415.4
27.5°	393.2	395.4	399.8	404.3	407.6
30°	382.0	384.3	388.7	395.4	399.8
32.5°	369.8	372.1	378.7	386.5	390.9
35°	357.6	359.8	367.6	377.6	383.2
37.5°	344.3	347.6	356.5	367.6	374.3
40°	331.0	334.3	344.3	356.5	366.5
42.5°	315.4	319.9	331.0	347.6	358.7
45°	299.9	305.4	318.7	338.7	350.9
47.5°	283.2	288.8	304.3	329.8	343.2
50°	266.5	273.2	292.1	319.9	334.3
52.5°	248.8	255.4	279.9	309.9	325.4
55°	229.9	239.9	267.7	298.8	314.3
57.5°	211.0	222.1	253.2	286.5	303.2
60°	191.0	204.4	239.9	273.2	289.9
62.5°	172.1	186.6	225.5	258.8	275.4
65°	152.2	168.8	209.9	243.2	258.8
67.5°	131.1	152.2	192.1	224.3	239.9
70°	109.9	134.4	174.4	204.4	218.8
72.5°	91.1	116.6	154.4	179.9	179.9
75°	72.2	97.7	132.2	134.4	131.1
77.5°	55.5	80.0	103.3	94.4	96.6
80°	41.1	61.1	65.5	68.9	71.1
82.5°	27.8	41.1	42.2	44.4	44.4
85°	17.8	21.1	22.2	21.1	20.0
87.5°	7.8	8.9	6.7	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)