

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-LD5-29-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-LD5-29-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1624.1 lumens
Efficiency: N/A
Efficacy: 69.1 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

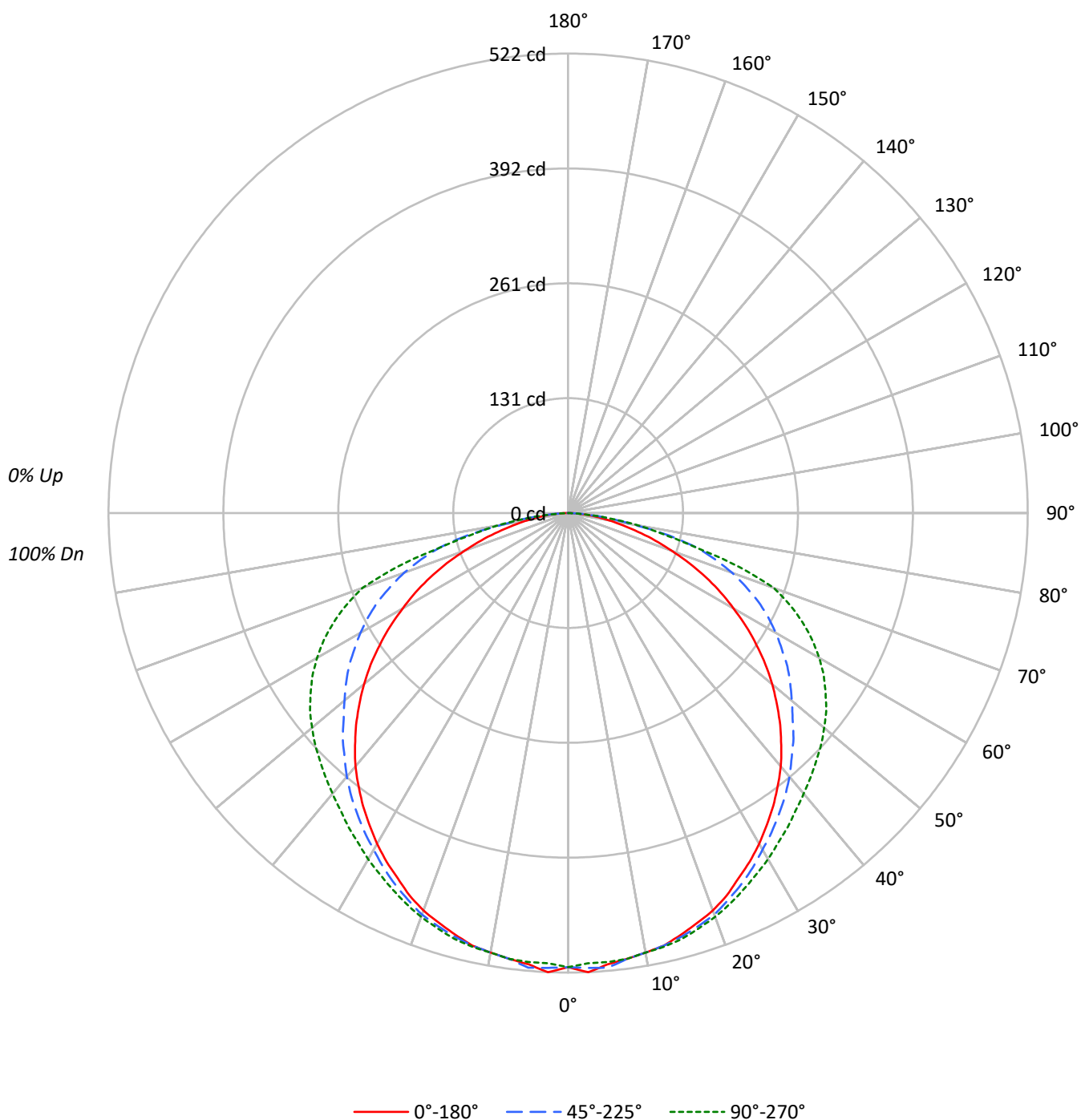
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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°	1388	1388	1388
5°	1384	1392	1377
10°	1373	1368	1373
15°	1363	1362	1376
20°	1351	1355	1373
25°	1328	1338	1369
30°	1310	1318	1371
35°	1289	1307	1381
40°	1267	1297	1403
45°	1234	1287	1444
50°	1196	1281	1500
55°	1143	1295	1563
60°	1075	1307	1631
65°	994	1318	1690
70°	863	1304	1718
75°	718	1235	1305
80°	563	823	976
85°	395	432	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	3.0
10°-20°	140.6	8.7
20°-30°	214.3	13.2
30°-40°	262.3	16.1
40°-50°	282.2	17.4
50°-60°	273.4	16.8
60°-70°	231.6	14.3
70°-80°	140.0	8.6
80°-90°	30.7	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°	404.0	24.9
0°-40°	666.2	41.0
0°-60°	1221.8	75.2
0°-90°	1624.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	515	515	518	516	512	49
15°	496	497	498	499	501	140
25°	458	460	465	469	472	211
35°	406	409	417	429	435	254
45°	341	347	362	385	398	262
55°	261	272	304	339	357	233
65°	173	192	238	276	294	170
75°	82	111	150	153	149	88
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.8	515.8	515.8	515.8	515.8
2.5°	522.1	520.9	517.1	514.6	512.0
5°	514.6	514.6	518.4	515.8	512.0
7.5°	510.8	510.8	510.8	517.1	510.8
10°	507.0	508.2	507.0	512.0	507.0
12.5°	503.2	503.2	503.2	504.5	504.5
15°	495.7	496.9	498.2	499.4	500.7
17.5°	488.1	489.3	491.9	493.1	494.4
20°	480.5	481.8	485.5	485.5	488.1
22.5°	470.4	470.4	475.5	476.7	480.5
25°	457.8	460.4	465.4	469.2	471.7
27.5°	446.5	449.0	454.1	459.1	462.8
30°	433.9	436.4	441.5	449.0	454.1
32.5°	420.0	422.6	430.1	438.9	443.9
35°	406.1	408.7	417.4	428.8	435.1
37.5°	391.0	394.8	404.9	417.4	425.0
40°	375.8	379.6	391.0	404.9	416.2
42.5°	358.2	363.3	375.8	394.8	407.4
45°	340.6	346.8	362.0	384.7	398.5
47.5°	321.6	327.9	345.6	374.6	389.7
50°	302.7	310.3	331.7	363.3	379.6
52.5°	282.5	290.1	317.9	351.9	369.5
55°	261.1	272.5	304.0	339.2	356.9
57.5°	239.7	252.2	287.6	325.4	344.3
60°	217.0	232.1	272.5	310.3	329.2
62.5°	195.5	211.8	256.0	293.8	312.8
65°	172.8	191.7	238.4	276.3	293.8
67.5°	148.9	172.8	218.2	254.8	272.5
70°	124.8	152.6	198.0	232.1	248.4
72.5°	103.5	132.4	175.3	204.3	204.3
75°	82.0	111.0	150.1	152.6	148.9
77.5°	63.1	90.8	117.3	107.2	109.7
80°	46.6	69.4	74.4	78.2	80.8
82.5°	31.5	46.6	48.0	50.4	50.4
85°	20.1	23.9	25.3	23.9	22.7
87.5°	8.8	10.1	7.6	5.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)