

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-LD5-24-RDP-UNV-L840-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-LD5-24-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

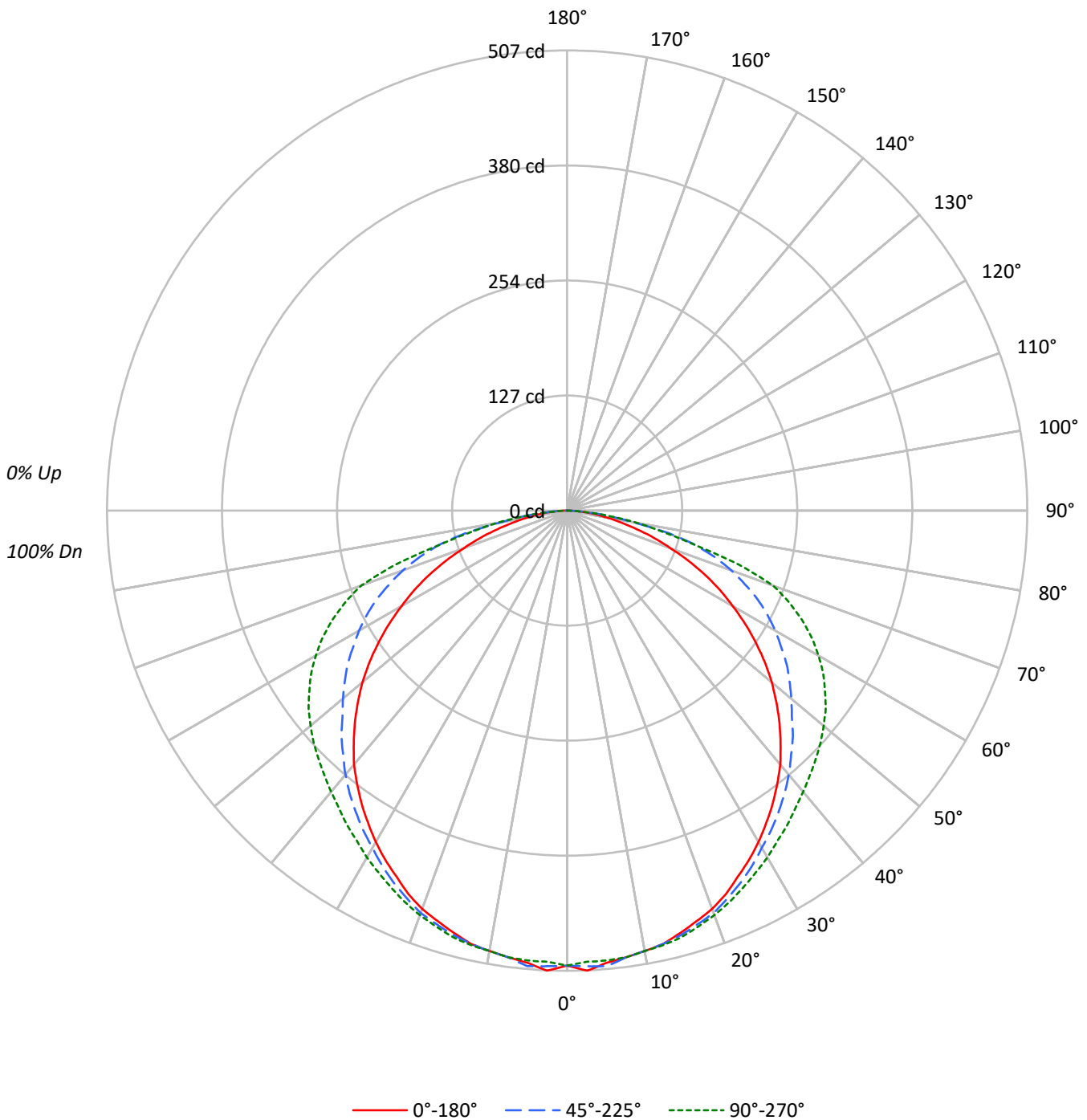
Lumens per Lamp: N/A
Luminaire Lumens: 1578.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
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	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°	1349	1349	1349
5°	1345	1353	1338
10°	1335	1330	1335
15°	1324	1324	1338
20°	1313	1317	1334
25°	1291	1300	1330
30°	1273	1281	1333
35°	1253	1270	1342
40°	1232	1260	1364
45°	1199	1250	1404
50°	1162	1245	1458
55°	1111	1259	1519
60°	1044	1270	1584
65°	966	1281	1642
70°	839	1268	1671
75°	698	1200	1267
80°	548	800	947
85°	385	418	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.0
10°-20°	136.7	8.7
20°-30°	208.3	13.2
30°-40°	254.9	16.1
40°-50°	274.2	17.4
50°-60°	265.7	16.8
60°-70°	225.0	14.3
70°-80°	136.0	8.6
80°-90°	29.9	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°	392.6	24.9
0°-40°	647.5	41.0
0°-60°	1187.4	75.2
0°-90°	1578.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	500	500	504	501	498	48
15°	482	483	484	485	487	136
25°	445	447	452	456	458	205
35°	395	397	406	417	423	247
45°	331	337	352	374	387	255
55°	254	265	295	330	347	227
65°	168	186	232	268	286	165
75°	80	108	146	148	145	86
85°	20	23	24	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.3	501.3	501.3	501.3	501.3
2.5°	507.4	506.2	502.5	500.1	497.6
5°	500.1	500.1	503.8	501.3	497.6
7.5°	496.4	496.4	496.4	502.5	496.4
10°	492.7	494.0	492.7	497.6	492.7
12.5°	489.1	489.1	489.1	490.3	490.3
15°	481.7	482.9	484.2	485.4	486.6
17.5°	474.3	475.6	478.0	479.2	480.5
20°	467.0	468.2	471.9	471.9	474.3
22.5°	457.2	457.2	462.1	463.3	467.0
25°	444.9	447.4	452.3	456.0	458.4
27.5°	433.9	436.3	441.3	446.2	449.8
30°	421.6	424.1	429.0	436.3	441.3
32.5°	408.2	410.6	418.0	426.5	431.4
35°	394.7	397.1	405.7	416.7	422.9
37.5°	380.0	383.6	393.4	405.7	413.1
40°	365.3	368.9	380.0	393.4	404.5
42.5°	348.1	353.0	365.3	383.6	395.9
45°	330.9	337.1	351.8	373.8	387.3
47.5°	312.6	318.7	335.8	364.0	378.7
50°	294.2	301.5	322.4	353.0	368.9
52.5°	274.6	281.9	308.9	342.0	359.1
55°	253.7	264.8	295.4	329.7	346.9
57.5°	232.9	245.1	279.5	316.2	334.6
60°	210.8	225.5	264.8	301.5	319.9
62.5°	190.0	205.9	248.8	285.6	304.0
65°	167.9	186.3	231.7	268.4	285.6
67.5°	144.6	167.9	212.0	247.6	264.8
70°	121.3	148.3	192.4	225.5	241.5
72.5°	100.5	128.7	170.4	198.6	198.6
75°	79.7	107.9	145.9	148.3	144.6
77.5°	61.3	88.3	114.0	104.2	106.6
80°	45.4	67.4	72.3	76.0	78.4
82.5°	30.6	45.4	46.6	49.0	49.0
85°	19.6	23.3	24.5	23.3	22.1
87.5°	8.6	9.8	7.4	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)