

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

Light Source: -
Ballast/Driver: -

Summary

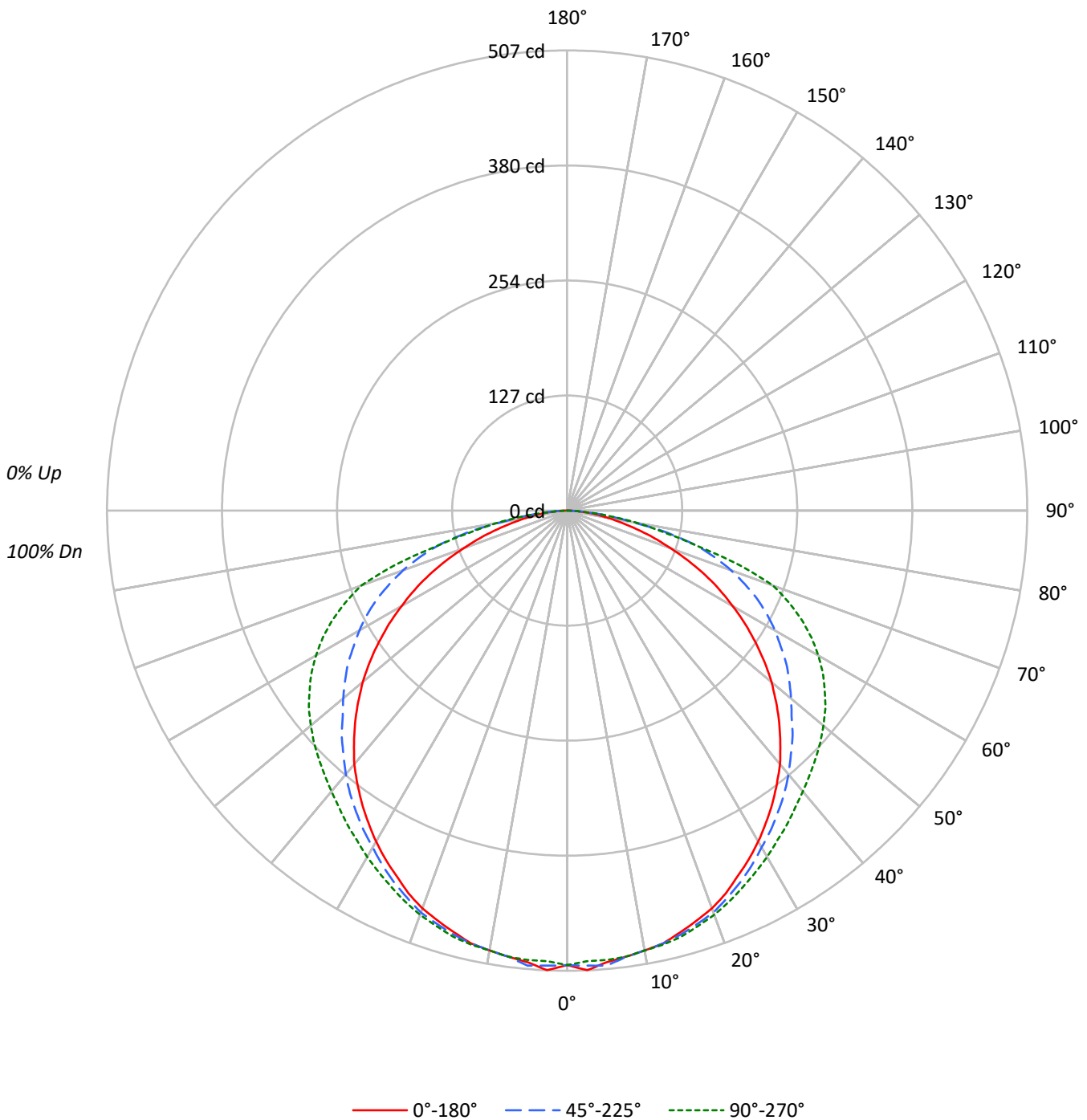
Lumens per Lamp: N/A
Luminaire Lumens: 1576.4 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	1347	1347	1347
5°	1343	1351	1337
10°	1333	1328	1333
15°	1323	1322	1336
20°	1312	1316	1333
25°	1289	1298	1329
30°	1272	1279	1331
35°	1251	1268	1341
40°	1230	1258	1362
45°	1198	1249	1402
50°	1161	1243	1456
55°	1110	1257	1517
60°	1043	1268	1582
65°	964	1279	1640
70°	838	1266	1669
75°	697	1199	1266
80°	547	799	945
85°	385	418	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.0
10°-20°	136.5	8.7
20°-30°	208.0	13.2
30°-40°	254.6	16.1
40°-50°	273.9	17.4
50°-60°	265.3	16.8
60°-70°	224.8	14.3
70°-80°	135.9	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°	392.1	24.9
0°-40°	646.7	41.0
0°-60°	1185.9	75.2
0°-90°	1576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	500	500	503	501	497	47
15°	481	482	484	485	486	136
25°	444	447	452	455	458	205
35°	394	397	405	416	422	247
45°	330	337	351	373	387	255
55°	253	264	295	329	346	226
65°	168	186	231	268	285	165
75°	80	108	146	148	144	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°	500.7	500.7	500.7	500.7	500.7
2.5°	506.8	505.6	501.9	499.5	497.0
5°	499.5	499.5	503.2	500.7	497.0
7.5°	495.8	495.8	495.8	501.9	495.8
10°	492.1	493.4	492.1	497.0	492.1
12.5°	488.5	488.5	488.5	489.7	489.7
15°	481.1	482.3	483.6	484.8	486.0
17.5°	473.8	475.0	477.4	478.7	479.9
20°	466.4	467.6	471.3	471.3	473.8
22.5°	456.6	456.6	461.5	462.8	466.4
25°	444.4	446.8	451.7	455.4	457.9
27.5°	433.4	435.8	440.7	445.6	449.3
30°	421.1	423.6	428.5	435.8	440.7
32.5°	407.7	410.1	417.5	426.0	430.9
35°	394.2	396.6	405.2	416.2	422.4
37.5°	379.5	383.2	393.0	405.2	412.6
40°	364.8	368.5	379.5	393.0	404.0
42.5°	347.7	352.6	364.8	383.2	395.4
45°	330.5	336.7	351.3	373.4	386.9
47.5°	312.2	318.3	335.4	363.6	378.3
50°	293.8	301.2	322.0	352.6	368.5
52.5°	274.2	281.6	308.5	341.6	358.7
55°	253.4	264.4	295.0	329.3	346.5
57.5°	232.6	244.8	279.1	315.8	334.2
60°	210.6	225.3	264.4	301.2	319.5
62.5°	189.8	205.7	248.5	285.2	303.6
65°	167.7	186.1	231.4	268.1	285.2
67.5°	144.5	167.7	211.8	247.3	264.4
70°	121.2	148.1	192.2	225.3	241.2
72.5°	100.4	128.5	170.2	198.3	198.3
75°	79.6	107.7	145.7	148.1	144.5
77.5°	61.2	88.1	113.9	104.1	106.5
80°	45.3	67.3	72.2	75.9	78.3
82.5°	30.6	45.3	46.5	49.0	49.0
85°	19.6	23.3	24.5	23.3	22.0
87.5°	8.6	9.8	7.3	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)