

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-SQP-UNV-L835-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-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1820.2 lumens
Efficiency: N/A
Efficacy: 86.3 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

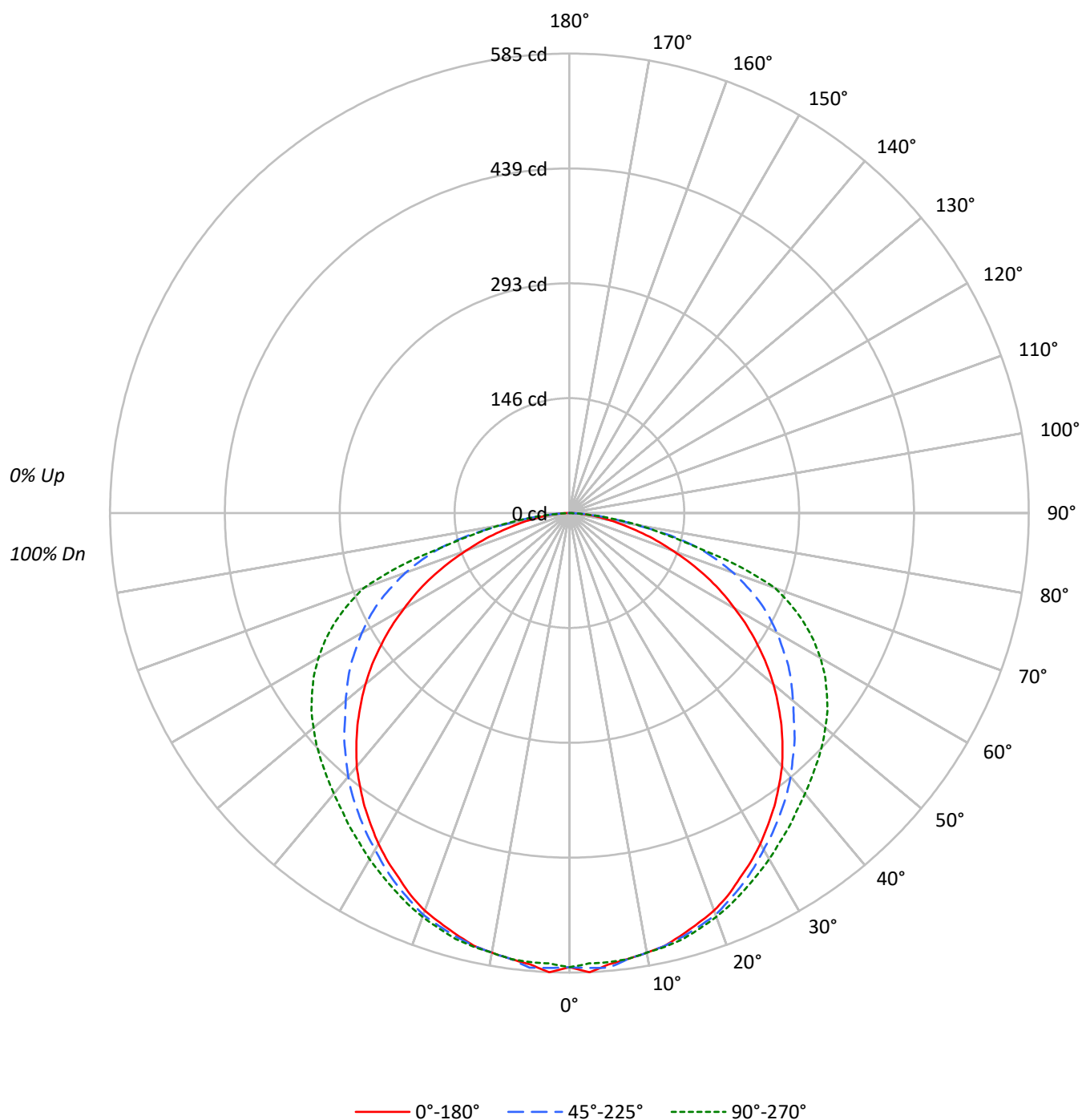
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1556	1556	1556
5°	1551	1560	1543
10°	1539	1534	1539
15°	1527	1527	1543
20°	1515	1519	1539
25°	1489	1499	1534
30°	1469	1477	1537
35°	1445	1465	1548
40°	1420	1453	1573
45°	1383	1442	1619
50°	1341	1436	1681
55°	1281	1452	1752
60°	1204	1464	1827
65°	1114	1477	1894
70°	968	1462	1927
75°	805	1384	1462
80°	631	922	1093
85°	444	483	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.0
10°-20°	157.6	8.7
20°-30°	240.2	13.2
30°-40°	294.0	16.1
40°-50°	316.3	17.4
50°-60°	306.4	16.8
60°-70°	259.5	14.3
70°-80°	156.9	8.6
80°-90°	34.5	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°	452.8	24.9
0°-40°	746.7	41.0
0°-60°	1369.4	75.2
0°-90°	1820.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	577	577	581	578	574	55
15°	556	557	558	560	561	157
25°	513	516	522	526	529	237
35°	455	458	468	481	488	285
45°	382	389	406	431	447	294
55°	293	305	341	380	400	261
65°	194	215	267	310	329	191
75°	92	124	168	171	167	99
85°	23	27	28	27	25	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.2	578.2	578.2	578.2	578.2
2.5°	585.2	583.8	579.6	576.7	573.9
5°	576.7	576.7	581.0	578.2	573.9
7.5°	572.5	572.5	572.5	579.6	572.5
10°	568.3	569.7	568.3	573.9	568.3
12.5°	564.0	564.0	564.0	565.4	565.4
15°	555.5	557.0	558.4	559.8	561.2
17.5°	547.1	548.5	551.3	552.7	554.1
20°	538.6	540.0	544.2	544.2	547.1
22.5°	527.3	527.3	532.9	534.3	538.6
25°	513.1	516.0	521.6	525.9	528.7
27.5°	500.4	503.2	508.9	514.5	518.8
30°	486.3	489.1	494.8	503.2	508.9
32.5°	470.7	473.6	482.0	491.9	497.6
35°	455.2	458.0	467.9	480.6	487.7
37.5°	438.2	442.5	453.8	467.9	476.4
40°	421.3	425.5	438.2	453.8	466.5
42.5°	401.5	407.1	421.3	442.5	456.6
45°	381.7	388.7	405.7	431.1	446.7
47.5°	360.5	367.5	387.3	419.8	436.8
50°	339.3	347.7	371.8	407.1	425.5
52.5°	316.6	325.1	356.2	394.4	414.2
55°	292.6	305.3	340.7	380.3	400.0
57.5°	268.6	282.7	322.3	364.7	385.9
60°	243.1	260.1	305.3	347.7	368.9
62.5°	219.1	237.5	287.0	329.4	350.6
65°	193.7	214.9	267.2	309.6	329.4
67.5°	166.8	193.7	244.6	285.5	305.3
70°	139.9	171.0	221.9	260.1	278.5
72.5°	115.9	148.4	196.5	229.0	229.0
75°	91.9	124.4	168.2	171.0	166.8
77.5°	70.7	101.8	131.5	120.2	123.0
80°	52.3	77.7	83.4	87.6	90.5
82.5°	35.3	52.3	53.7	56.5	56.5
85°	22.6	26.9	28.3	26.9	25.4
87.5°	9.9	11.3	8.5	5.7	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)