

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-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-LD5-24SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.2 lumens
Efficiency: N/A
Efficacy: 80.8 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

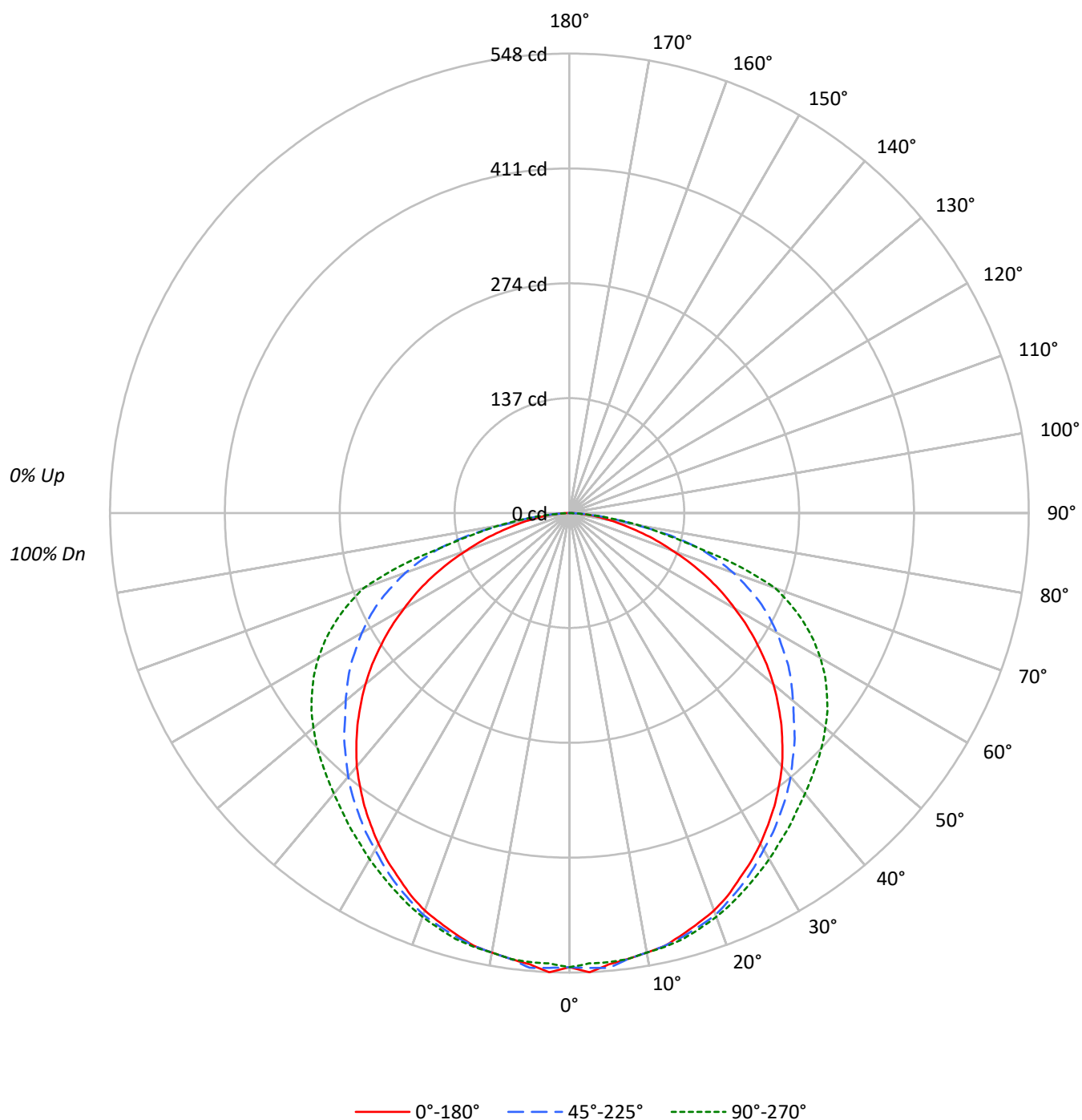
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1457	1457	1457
5°	1453	1461	1446
10°	1442	1437	1442
15°	1431	1430	1445
20°	1419	1423	1441
25°	1395	1404	1437
30°	1376	1384	1440
35°	1353	1372	1450
40°	1330	1361	1473
45°	1296	1351	1517
50°	1256	1345	1575
55°	1200	1360	1641
60°	1128	1371	1712
65°	1043	1384	1774
70°	907	1370	1805
75°	754	1296	1370
80°	592	864	1024
85°	417	452	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.0
10°-20°	147.7	8.7
20°-30°	225.0	13.2
30°-40°	275.4	16.1
40°-50°	296.3	17.4
50°-60°	287.0	16.8
60°-70°	243.1	14.3
70°-80°	147.0	8.6
80°-90°	32.3	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°	424.2	24.9
0°-40°	699.5	41.0
0°-60°	1282.8	75.2
0°-90°	1705.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	540	540	544	542	538	51
15°	520	522	523	524	526	147
25°	481	483	489	493	495	222
35°	426	429	438	450	457	267
45°	358	364	380	404	418	276
55°	274	286	319	356	375	245
65°	181	201	250	290	308	179
75°	86	116	158	160	156	92
85°	21	25	26	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.6	541.6	541.6	541.6	541.6
2.5°	548.2	546.9	542.9	540.3	537.6
5°	540.3	540.3	544.3	541.6	537.6
7.5°	536.3	536.3	536.3	542.9	536.3
10°	532.3	533.7	532.3	537.6	532.3
12.5°	528.4	528.4	528.4	529.7	529.7
15°	520.4	521.8	523.1	524.4	525.7
17.5°	512.5	513.8	516.5	517.8	519.1
20°	504.5	505.9	509.8	509.8	512.5
22.5°	493.9	493.9	499.2	500.6	504.5
25°	480.7	483.3	488.6	492.6	495.3
27.5°	468.8	471.4	476.7	482.0	486.0
30°	455.5	458.2	463.5	471.4	476.7
32.5°	441.0	443.6	451.6	460.8	466.1
35°	426.4	429.1	438.3	450.2	456.9
37.5°	410.5	414.5	425.1	438.3	446.3
40°	394.6	398.6	410.5	425.1	437.0
42.5°	376.1	381.4	394.6	414.5	427.7
45°	357.5	364.2	380.1	403.9	418.5
47.5°	337.7	344.3	362.8	393.3	409.2
50°	317.8	325.8	348.3	381.4	398.6
52.5°	296.6	304.6	333.7	369.5	388.0
55°	274.1	286.0	319.1	356.2	374.8
57.5°	251.6	264.8	301.9	341.7	361.5
60°	227.8	243.7	286.0	325.8	345.6
62.5°	205.3	222.5	268.8	308.5	328.4
65°	181.4	201.3	250.3	290.0	308.5
67.5°	156.3	181.4	229.1	267.5	286.0
70°	131.1	160.2	207.9	243.7	260.9
72.5°	108.6	139.0	184.1	214.5	214.5
75°	86.1	116.5	157.6	160.2	156.3
77.5°	66.2	95.3	123.2	112.6	115.2
80°	49.0	72.8	78.1	82.1	84.8
82.5°	33.1	49.0	50.3	53.0	53.0
85°	21.2	25.2	26.5	25.2	23.8
87.5°	9.3	10.6	7.9	5.3	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)