

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: **24CZ-LD5-35-SQP-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: 24CZ-LD5-35-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2158.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

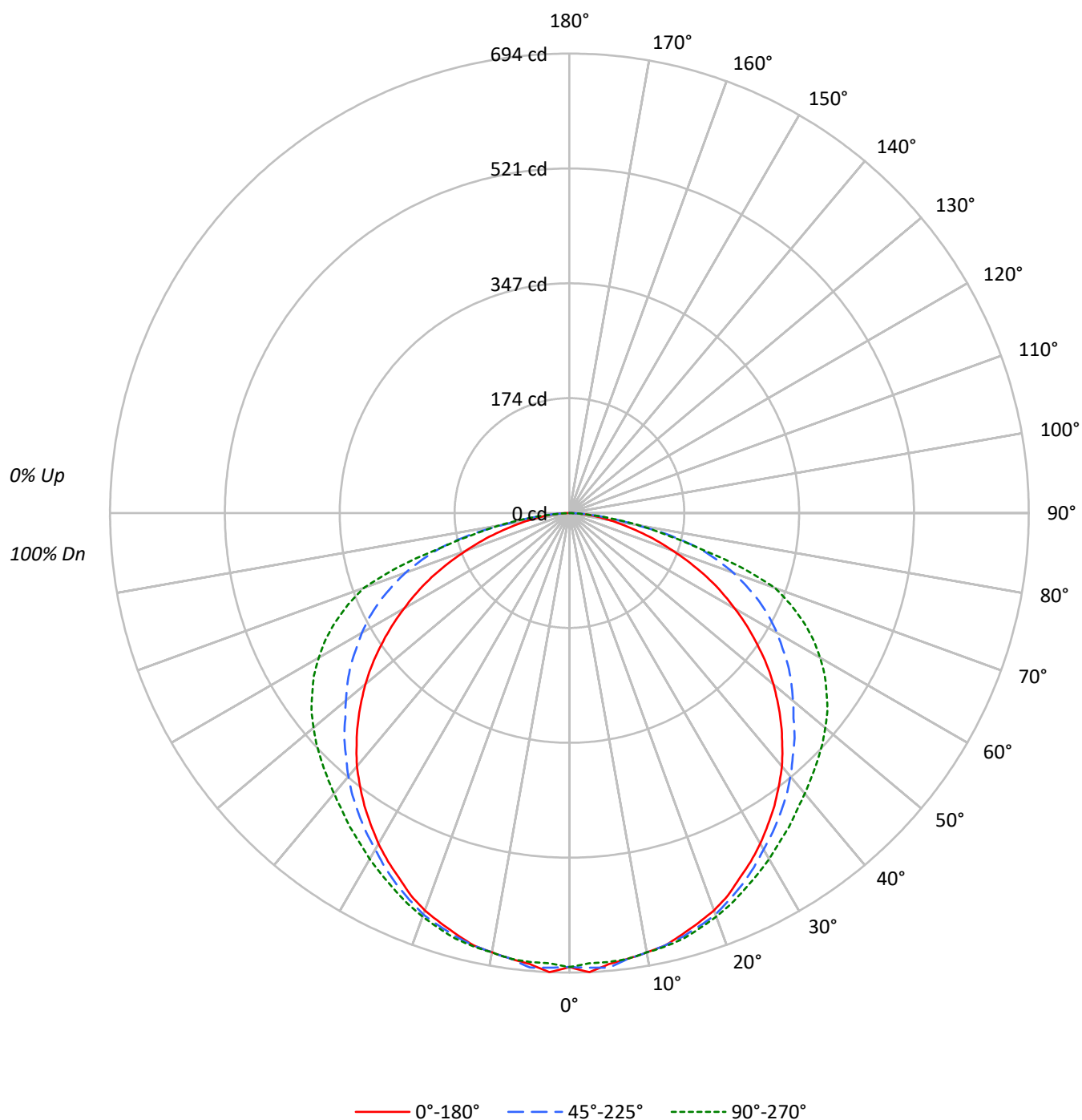
Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	922	922	922
5°	922	926	915
10°	917	912	913
15°	912	909	915
20°	906	906	912
25°	893	896	909
30°	883	884	911
35°	871	879	918
40°	859	874	933
45°	840	869	960
50°	818	868	997
55°	786	881	1039
60°	744	892	1083
65°	694	906	1123
70°	611	904	1142
75°	518	866	867
80°	421	589	648
85°	322	322	297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.0
10°-20°	186.9	8.7
20°-30°	284.9	13.2
30°-40°	348.6	16.1
40°-50°	375.1	17.4
50°-60°	363.3	16.8
60°-70°	307.7	14.3
70°-80°	186.0	8.6
80°-90°	40.9	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°	536.9	24.9
0°-40°	885.5	41.0
0°-60°	1623.8	75.2
0°-90°	2158.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	684	684	689	686	681	65
15°	659	660	662	664	666	186
25°	608	612	618	624	627	281
35°	540	543	555	570	578	338
45°	453	461	481	511	530	349
55°	347	362	404	451	474	310
65°	230	255	317	367	390	226
75°	109	148	200	203	198	117
85°	27	32	34	32	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.6	685.6	685.6	685.6	685.6
2.5°	694.0	692.3	687.3	683.9	680.6
5°	683.9	683.9	688.9	685.6	680.6
7.5°	678.9	678.9	678.9	687.3	678.9
10°	673.8	675.5	673.8	680.6	673.8
12.5°	668.8	668.8	668.8	670.5	670.5
15°	658.8	660.4	662.2	663.8	665.5
17.5°	648.8	650.4	653.8	655.4	657.1
20°	638.7	640.3	645.3	645.3	648.8
22.5°	625.3	625.3	631.9	633.6	638.7
25°	608.5	611.8	618.5	623.6	626.9
27.5°	593.4	596.8	603.4	610.2	615.2
30°	576.6	580.0	586.7	596.8	603.4
32.5°	558.2	561.5	571.6	583.4	590.0
35°	539.8	543.1	554.9	569.9	578.4
37.5°	519.6	524.7	538.1	554.9	564.9
40°	499.5	504.5	519.6	538.1	553.2
42.5°	476.0	482.8	499.5	524.7	541.4
45°	452.6	460.9	481.1	511.3	529.7
47.5°	427.5	435.9	459.3	497.9	517.9
50°	402.3	412.4	440.9	482.8	504.5
52.5°	375.5	385.5	422.5	467.7	491.2
55°	347.0	362.0	403.9	451.0	474.4
57.5°	318.5	335.3	382.2	432.4	457.6
60°	288.3	308.5	362.0	412.4	437.5
62.5°	259.8	281.6	340.3	390.5	415.7
65°	229.6	254.8	316.8	367.1	390.5
67.5°	197.8	229.6	290.0	338.6	362.0
70°	166.0	202.8	263.2	308.5	330.2
72.5°	137.5	176.0	233.0	271.6	271.6
75°	109.0	147.5	199.5	202.8	197.8
77.5°	83.8	120.6	155.9	142.5	145.8
80°	62.0	92.1	98.9	103.9	107.3
82.5°	41.9	62.0	63.7	67.1	67.1
85°	26.8	31.8	33.5	31.8	30.2
87.5°	11.8	13.4	10.1	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)