

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-LD5-45-RDP-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-LD5-45-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.7 lumens
Efficiency: N/A
Efficacy: 73.7 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

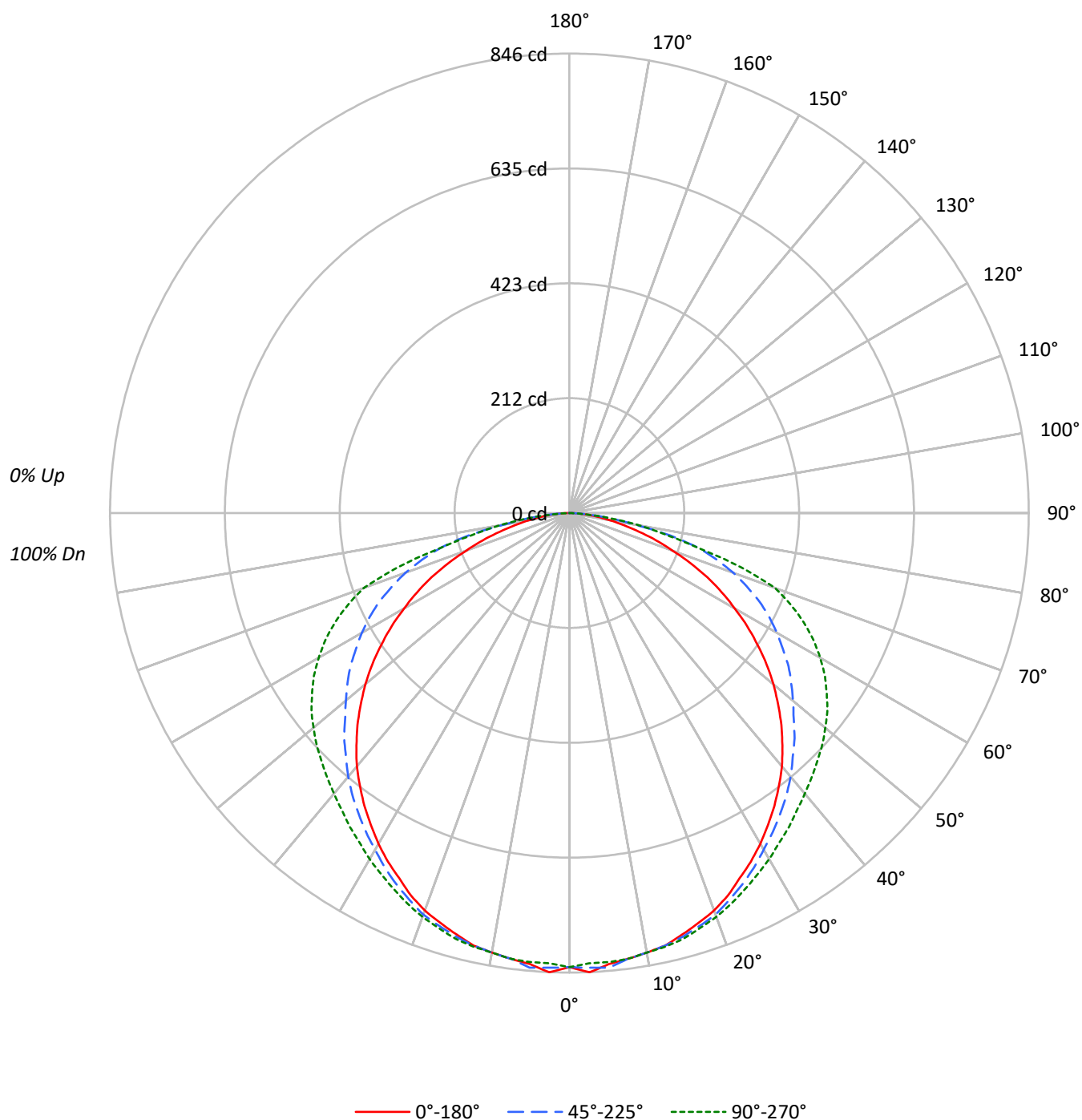
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1125	1125	1125
5°	1124	1129	1116
10°	1118	1112	1113
15°	1111	1109	1115
20°	1105	1105	1112
25°	1089	1093	1109
30°	1077	1078	1111
35°	1062	1071	1119
40°	1048	1065	1137
45°	1025	1060	1170
50°	997	1058	1215
55°	958	1074	1266
60°	907	1088	1321
65°	846	1104	1369
70°	745	1102	1393
75°	631	1055	1057
80°	513	718	790
85°	393	392	362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.0
10°-20°	227.9	8.7
20°-30°	347.3	13.2
30°-40°	425.0	16.1
40°-50°	457.3	17.4
50°-60°	442.9	16.8
60°-70°	375.2	14.3
70°-80°	226.8	8.6
80°-90°	49.8	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°	654.6	24.9
0°-40°	1079.6	41.0
0°-60°	1979.8	75.2
0°-90°	2631.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	834	834	840	836	830	79
15°	803	805	807	809	811	227
25°	742	746	754	760	764	342
35°	658	662	676	695	705	412
45°	552	562	586	623	646	425
55°	423	442	493	550	578	378
65°	280	311	386	448	476	276
75°	133	180	243	247	241	143
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.9	835.9	835.9	835.9	835.9
2.5°	846.2	844.1	837.9	833.8	829.7
5°	833.8	833.8	840.0	835.9	829.7
7.5°	827.7	827.7	827.7	837.9	827.7
10°	821.6	823.6	821.6	829.7	821.6
12.5°	815.5	815.5	815.5	817.5	817.5
15°	803.2	805.2	807.3	809.3	811.4
17.5°	791.0	793.0	797.0	799.1	801.1
20°	778.7	780.7	786.9	786.9	791.0
22.5°	762.3	762.3	770.5	772.5	778.7
25°	741.9	745.9	754.1	760.3	764.4
27.5°	723.5	727.6	735.8	743.9	750.0
30°	703.1	707.2	715.4	727.6	735.8
32.5°	680.6	684.7	696.9	711.3	719.4
35°	658.1	662.2	676.5	694.9	705.1
37.5°	633.6	639.7	656.1	676.5	688.8
40°	609.0	615.2	633.6	656.1	674.4
42.5°	580.4	588.6	609.0	639.7	660.2
45°	551.9	562.0	586.5	623.4	645.8
47.5°	521.2	531.3	560.0	607.0	631.6
50°	490.5	502.7	537.5	588.6	615.2
52.5°	457.8	470.1	515.0	570.2	598.8
55°	423.0	441.5	492.6	549.8	578.4
57.5°	388.4	408.8	466.0	527.2	557.9
60°	351.5	376.0	441.5	502.7	533.4
62.5°	316.8	343.3	414.9	476.2	506.8
65°	280.0	310.6	386.3	447.5	476.2
67.5°	241.2	280.0	353.6	412.9	441.5
70°	202.4	247.3	320.9	376.0	402.6
72.5°	167.6	214.6	284.0	331.1	331.1
75°	132.8	179.8	243.2	247.3	241.2
77.5°	102.2	147.2	190.1	173.8	177.8
80°	75.6	112.4	120.6	126.7	130.8
82.5°	51.1	75.6	77.7	81.8	81.8
85°	32.7	38.9	40.8	38.9	36.8
87.5°	14.3	16.3	12.3	8.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)