

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-LD5-50SE-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-LD5-50SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

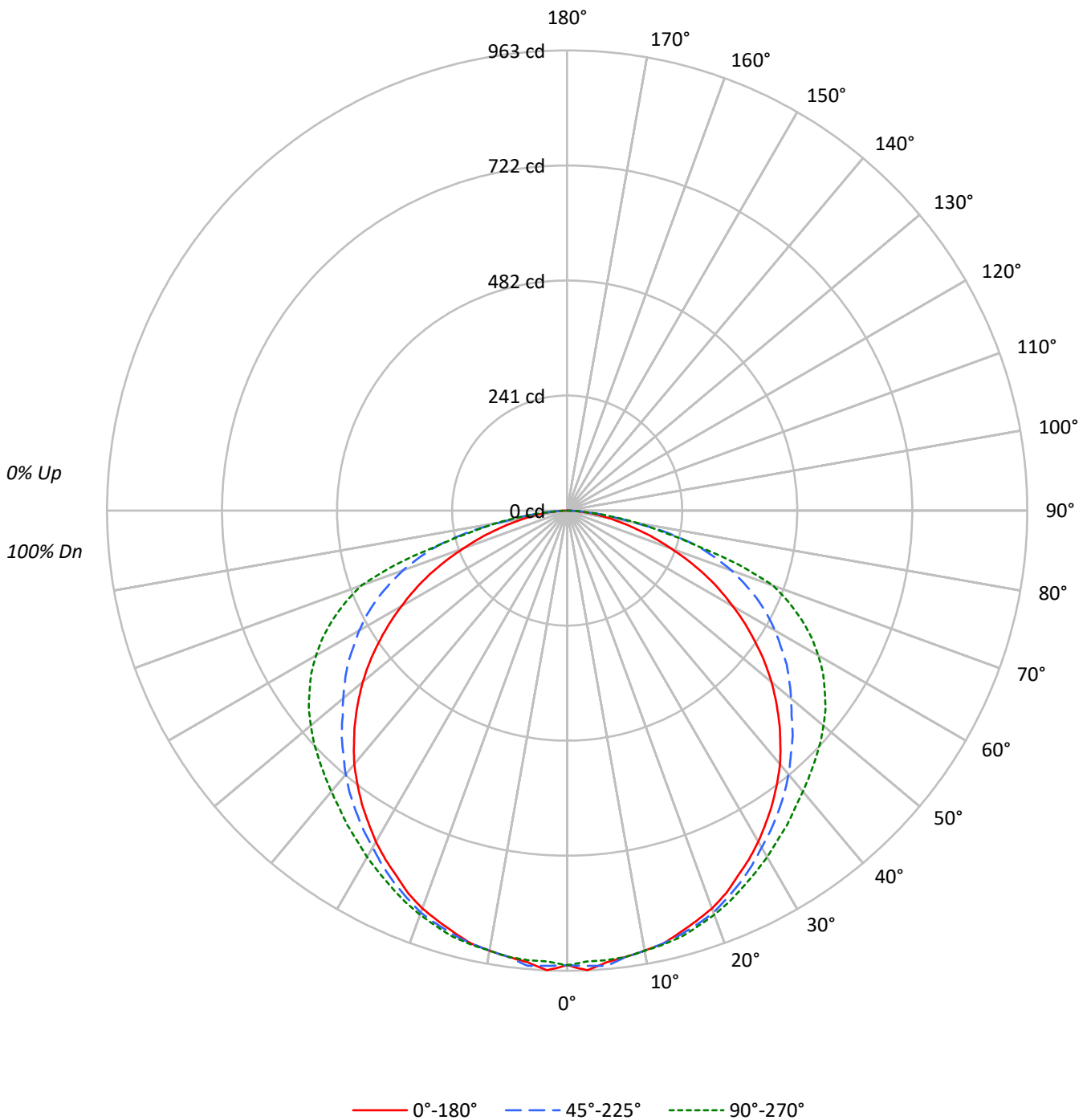
Lumens per Lamp: N/A
Luminaire Lumens: 2995.1 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46.56
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				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°	1280	1280	1280
5°	1279	1285	1270
10°	1272	1266	1266
15°	1265	1262	1269
20°	1257	1258	1266
25°	1239	1243	1262
30°	1225	1227	1264
35°	1209	1219	1274
40°	1192	1212	1294
45°	1166	1206	1332
50°	1135	1204	1383
55°	1091	1222	1441
60°	1032	1238	1503
65°	963	1257	1558
70°	848	1254	1585
75°	718	1201	1203
80°	584	818	899
85°	447	448	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.0
10°-20°	259.4	8.7
20°-30°	395.3	13.2
30°-40°	483.7	16.1
40°-50°	520.4	17.4
50°-60°	504.1	16.8
60°-70°	427.0	14.3
70°-80°	258.1	8.6
80°-90°	56.7	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°	745.0	24.9
0°-40°	1228.7	41.0
0°-60°	2253.2	75.2
0°-90°	2995.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	949	956	951	944	90
15°	914	916	919	921	923	258
25°	844	849	858	865	870	390
35°	749	754	770	791	802	468
45°	628	640	668	709	735	484
55°	482	502	561	626	658	430
65°	319	354	440	509	542	314
75°	151	205	277	282	274	162
85°	37	44	47	44	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.3	951.3	951.3	951.3	951.3
2.5°	962.9	960.6	953.6	949.0	944.3
5°	949.0	949.0	956.0	951.3	944.3
7.5°	942.0	942.0	942.0	953.6	942.0
10°	935.0	937.4	935.0	944.3	935.0
12.5°	928.1	928.1	928.1	930.3	930.3
15°	914.1	916.5	918.7	921.0	923.4
17.5°	900.1	902.5	907.2	909.4	911.8
20°	886.2	888.5	895.5	895.5	900.1
22.5°	867.5	867.5	876.8	879.2	886.2
25°	844.4	848.9	858.2	865.3	869.9
27.5°	823.4	828.0	837.3	846.6	853.6
30°	800.1	804.7	814.1	828.0	837.3
32.5°	774.5	779.2	793.2	809.4	818.7
35°	749.0	753.6	769.9	790.8	802.5
37.5°	721.0	728.0	746.6	769.9	783.8
40°	693.1	700.2	721.0	746.6	767.6
42.5°	660.5	669.8	693.1	728.0	751.3
45°	628.0	639.6	667.6	709.4	735.0
47.5°	593.1	604.8	637.3	690.8	718.7
50°	558.2	572.2	611.7	669.8	700.2
52.5°	521.0	534.9	586.2	648.9	681.5
55°	481.5	502.4	560.6	625.7	658.3
57.5°	441.9	465.2	530.3	600.1	635.0
60°	400.0	428.0	502.4	572.2	607.0
62.5°	360.5	390.7	472.2	542.0	576.8
65°	318.6	353.5	439.6	509.4	542.0
67.5°	274.5	318.6	402.4	469.9	502.4
70°	230.3	281.5	365.2	428.0	458.2
72.5°	190.8	244.2	323.3	376.8	376.8
75°	151.1	204.7	276.8	281.5	274.5
77.5°	116.3	167.5	216.3	197.7	202.4
80°	86.1	128.0	137.3	144.2	148.9
82.5°	58.1	86.1	88.4	93.0	93.0
85°	37.2	44.2	46.6	44.2	41.9
87.5°	16.2	18.6	14.0	9.3	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)