

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-LD5-40-SQP-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: 24CZ-LD5-40-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3021.4 lumens
Efficiency: N/A
Efficacy: 104.0 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

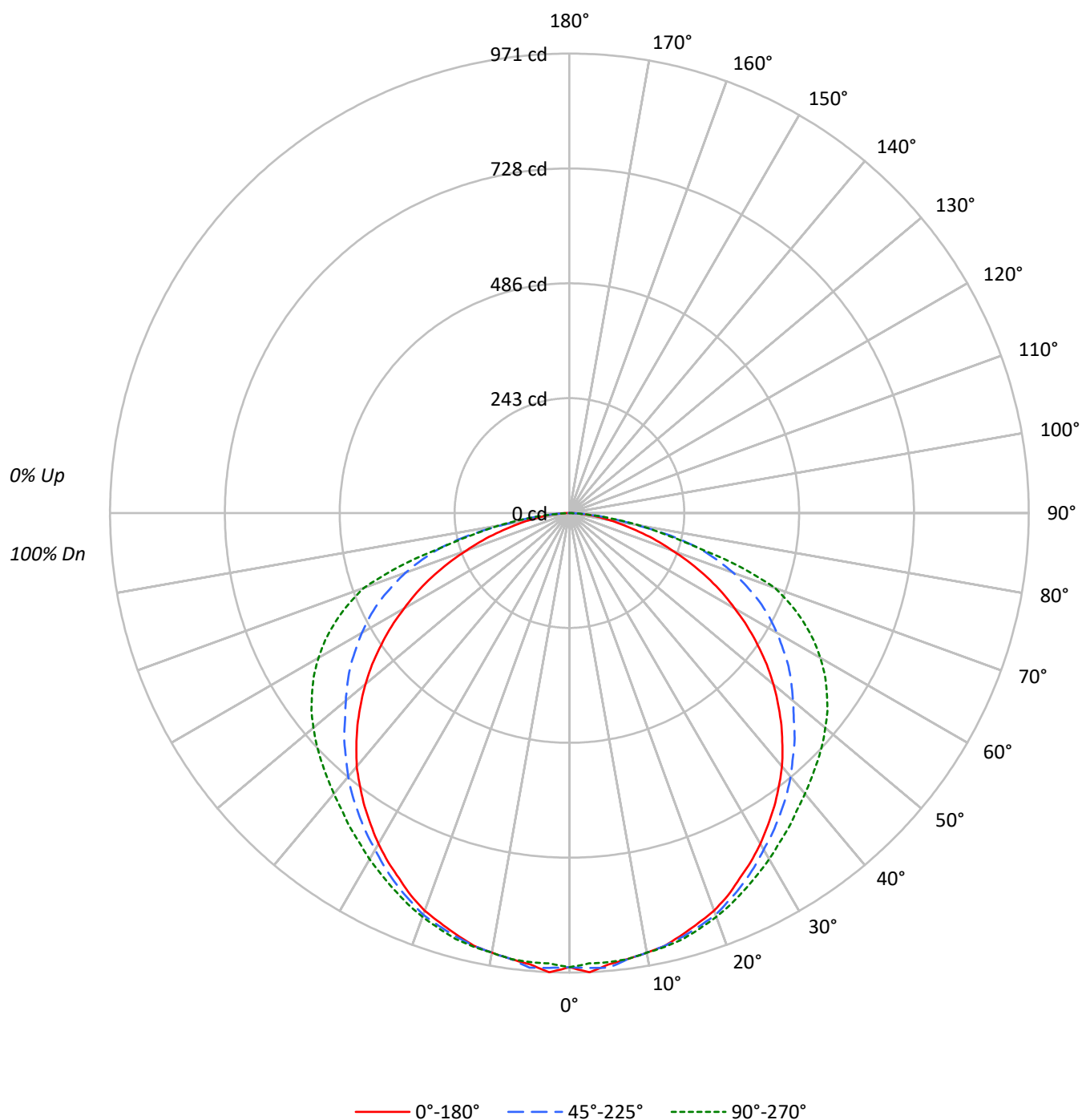
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1291	1291	1291
5°	1290	1297	1281
10°	1283	1277	1278
15°	1276	1273	1280
20°	1269	1269	1277
25°	1250	1254	1273
30°	1236	1238	1276
35°	1220	1230	1285
40°	1203	1223	1305
45°	1176	1217	1344
50°	1145	1215	1395
55°	1100	1233	1454
60°	1041	1249	1517
65°	971	1268	1572
70°	855	1265	1599
75°	725	1212	1213
80°	589	824	907
85°	450	451	415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.0
10°-20°	261.7	8.7
20°-30°	398.8	13.2
30°-40°	487.9	16.1
40°-50°	525.0	17.4
50°-60°	508.5	16.8
60°-70°	430.8	14.3
70°-80°	260.4	8.6
80°-90°	57.2	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°	751.6	24.9
0°-40°	1239.5	41.0
0°-60°	2273.0	75.2
0°-90°	3021.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	957	957	964	960	953	91
15°	922	924	927	929	932	260
25°	852	856	866	873	878	393
35°	756	760	777	798	810	473
45°	634	645	673	716	742	488
55°	486	507	566	631	664	434
65°	322	357	444	514	547	317
75°	152	206	279	284	277	164
85°	38	45	47	45	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.7	959.7	959.7	959.7	959.7
2.5°	971.4	969.1	962.0	957.3	952.6
5°	957.3	957.3	964.4	959.7	952.6
7.5°	950.3	950.3	950.3	962.0	950.3
10°	943.3	945.6	943.3	952.6	943.3
12.5°	936.2	936.2	936.2	938.6	938.6
15°	922.1	924.5	926.8	929.2	931.5
17.5°	908.1	910.4	915.1	917.4	919.8
20°	894.0	896.3	903.4	903.4	908.1
22.5°	875.2	875.2	884.6	886.9	894.0
25°	851.7	856.4	865.8	872.9	877.6
27.5°	830.6	835.3	844.7	854.1	861.1
30°	807.2	811.9	821.2	835.3	844.7
32.5°	781.3	786.0	800.1	816.5	825.9
35°	755.5	760.2	776.7	797.8	809.5
37.5°	727.4	734.4	753.2	776.7	790.7
40°	699.2	706.3	727.4	753.2	774.3
42.5°	666.4	675.8	699.2	734.4	757.9
45°	633.5	645.3	673.4	715.7	741.5
47.5°	598.3	610.1	642.9	696.9	725.0
50°	563.1	577.2	617.1	675.8	706.3
52.5°	525.6	539.7	591.3	654.6	687.5
55°	485.7	506.8	565.5	631.2	664.0
57.5°	445.8	469.3	535.0	605.4	640.6
60°	403.6	431.7	506.8	577.2	612.4
62.5°	363.7	394.2	476.3	546.7	581.9
65°	321.5	356.7	443.5	513.9	546.7
67.5°	276.9	321.5	405.9	474.0	506.8
70°	232.3	283.9	368.4	431.7	462.2
72.5°	192.4	246.4	326.1	380.1	380.1
75°	152.5	206.5	279.2	283.9	276.9
77.5°	117.3	168.9	218.2	199.4	204.1
80°	86.8	129.1	138.4	145.5	150.2
82.5°	58.7	86.8	89.2	93.9	93.9
85°	37.5	44.6	46.9	44.6	42.2
87.5°	16.4	18.8	14.1	9.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)