

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-LD5-40SE-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-LD5-40SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.7 lumens
Efficiency: N/A
Efficacy: 72.7 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

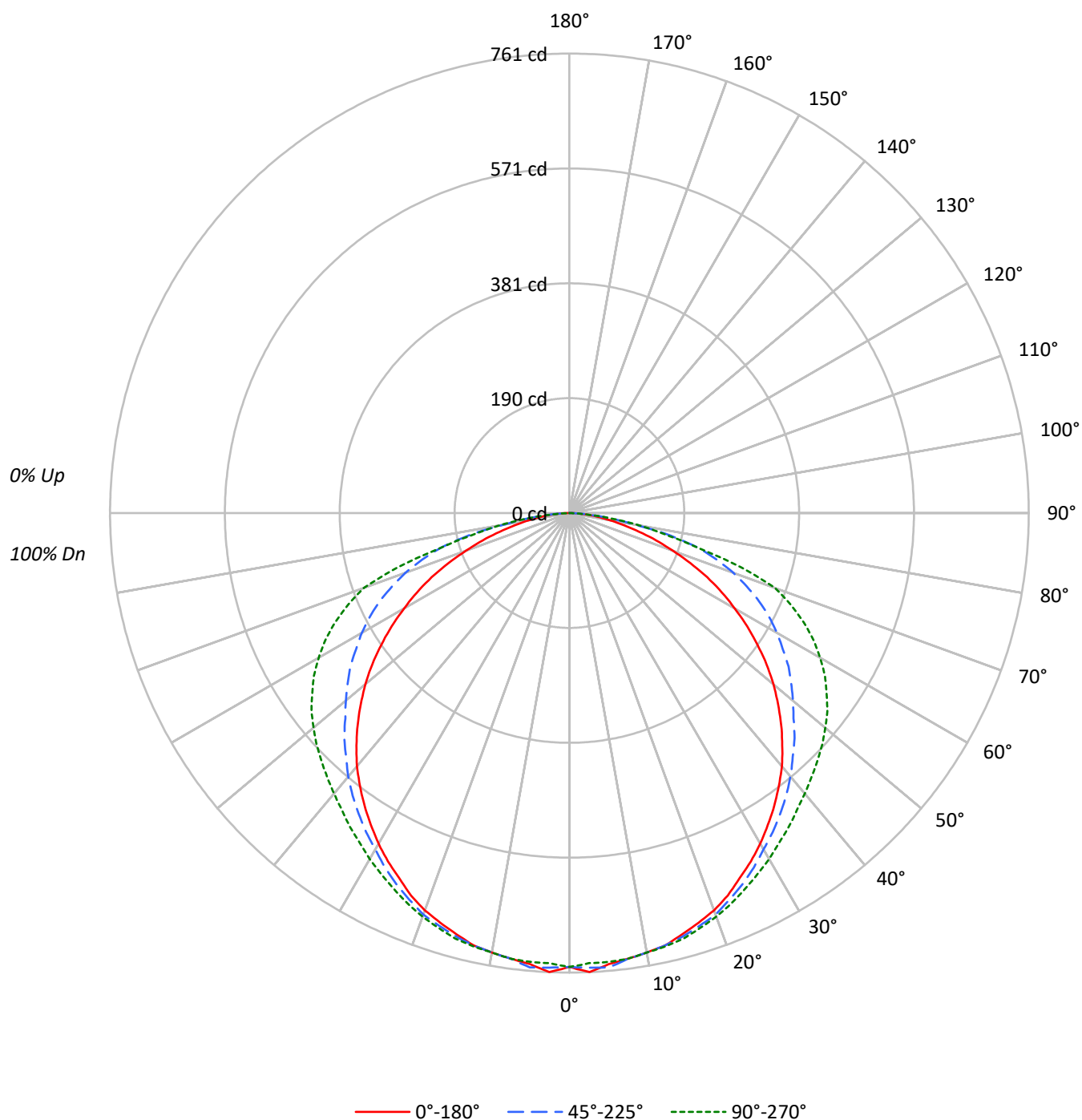
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
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°	1011	1011	1011
5°	1011	1016	1003
10°	1005	1000	1001
15°	999	997	1003
20°	994	994	1000
25°	979	983	997
30°	968	970	999
35°	955	964	1006
40°	942	958	1023
45°	921	953	1053
50°	897	952	1093
55°	862	966	1139
60°	816	978	1188
65°	761	993	1232
70°	670	991	1252
75°	568	949	950
80°	461	646	710
85°	353	354	325



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.0
10°-20°	205.0	8.7
20°-30°	312.4	13.2
30°-40°	382.2	16.1
40°-50°	411.2	17.4
50°-60°	398.3	16.8
60°-70°	337.4	14.3
70°-80°	204.0	8.6
80°-90°	44.8	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°	588.7	24.9
0°-40°	970.9	41.0
0°-60°	1780.5	75.2
0°-90°	2366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	750	750	755	752	746	71
15°	722	724	726	728	730	204
25°	667	671	678	684	687	308
35°	592	596	608	625	634	370
45°	496	505	528	561	581	382
55°	380	397	443	494	520	340
65°	252	279	347	402	428	248
75°	120	162	219	222	217	128
85°	29	35	37	35	33	33
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.7	751.7	751.7	751.7	751.7
2.5°	760.9	759.0	753.5	749.9	746.2
5°	749.9	749.9	755.4	751.7	746.2
7.5°	744.4	744.4	744.4	753.5	744.4
10°	738.9	740.7	738.9	746.2	738.9
12.5°	733.3	733.3	733.3	735.2	735.2
15°	722.3	724.2	726.0	727.8	729.7
17.5°	711.3	713.2	716.8	718.7	720.5
20°	700.2	702.1	707.7	707.7	711.3
22.5°	685.5	685.5	692.9	694.7	700.2
25°	667.2	670.9	678.2	683.7	687.4
27.5°	650.7	654.4	661.7	669.0	674.5
30°	632.2	635.9	643.2	654.4	661.7
32.5°	612.1	615.7	626.7	639.6	646.9
35°	591.8	595.5	608.4	624.9	634.1
37.5°	569.8	575.3	589.9	608.4	619.4
40°	547.7	553.2	569.8	589.9	606.6
42.5°	522.0	529.3	547.7	575.3	593.7
45°	496.3	505.4	527.5	560.6	580.8
47.5°	468.7	477.8	503.6	545.9	567.9
50°	441.1	452.1	483.4	529.3	553.2
52.5°	411.7	422.8	463.1	512.8	538.6
55°	380.5	397.0	443.0	494.4	520.1
57.5°	349.2	367.6	419.0	474.2	501.8
60°	316.2	338.2	397.0	452.1	479.8
62.5°	284.9	308.8	373.1	428.3	455.8
65°	251.8	279.4	347.4	402.5	428.3
67.5°	216.9	251.8	318.0	371.3	397.0
70°	181.9	222.4	288.5	338.2	362.0
72.5°	150.7	192.9	255.5	297.7	297.7
75°	119.5	161.8	218.7	222.4	216.9
77.5°	91.9	132.3	170.9	156.3	159.9
80°	68.0	101.1	108.4	114.0	117.6
82.5°	46.0	68.0	69.8	73.5	73.5
85°	29.4	35.0	36.8	35.0	33.1
87.5°	12.8	14.7	11.0	7.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)