

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-L835-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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

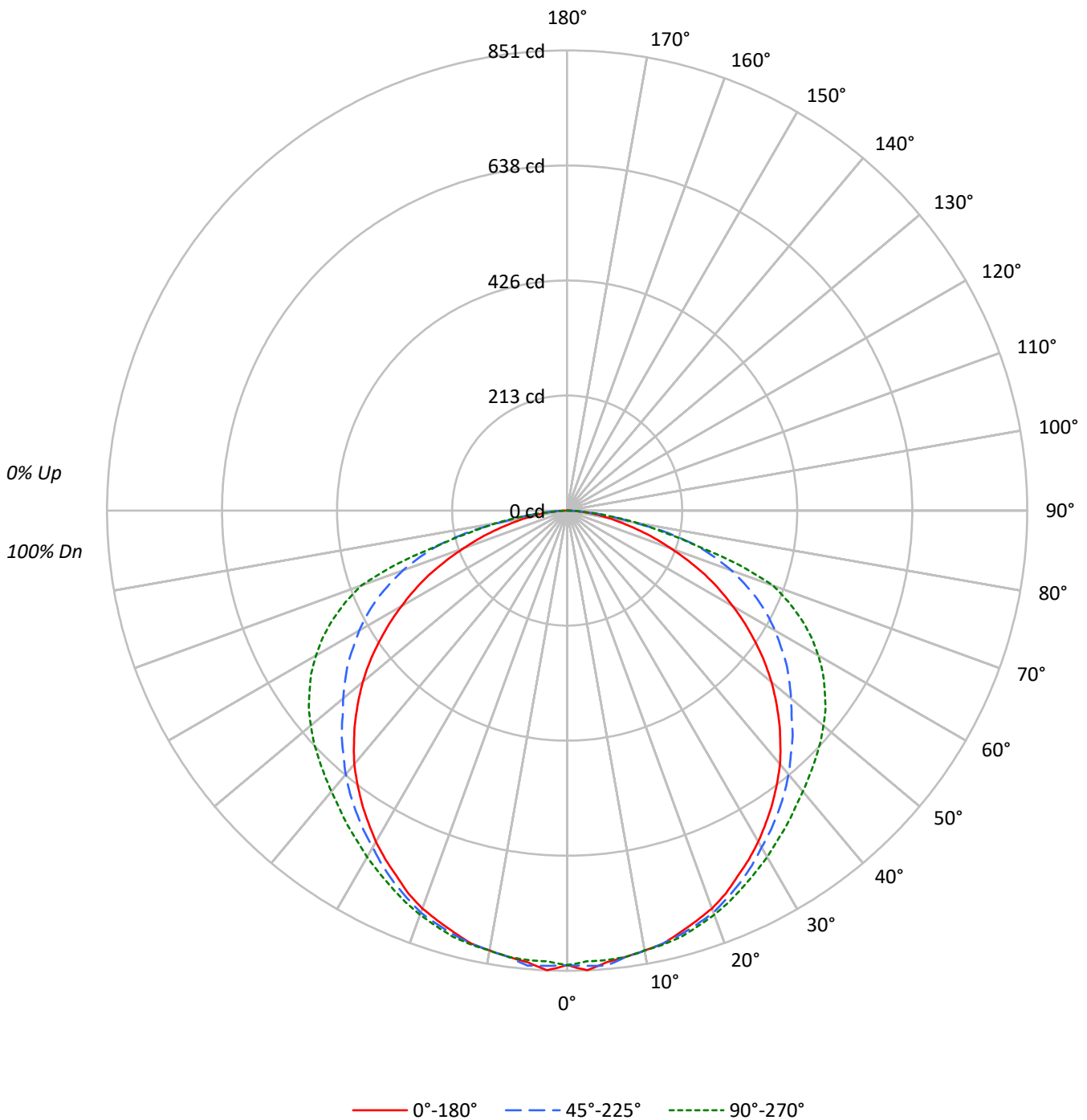
Lumens per Lamp: N/A
Luminaire Lumens: 2646.5 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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



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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°	1131	1131	1131
5°	1130	1136	1122
10°	1124	1118	1119
15°	1118	1115	1121
20°	1111	1112	1119
25°	1095	1099	1115
30°	1083	1084	1117
35°	1068	1077	1125
40°	1054	1071	1143
45°	1030	1066	1177
50°	1003	1064	1222
55°	963	1080	1273
60°	912	1094	1328
65°	851	1110	1377
70°	749	1108	1400
75°	635	1061	1062
80°	516	723	794
85°	395	395	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.0
10°-20°	229.2	8.7
20°-30°	349.3	13.2
30°-40°	427.4	16.1
40°-50°	459.9	17.4
50°-60°	445.4	16.8
60°-70°	377.3	14.3
70°-80°	228.1	8.6
80°-90°	50.1	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°	658.3	24.9
0°-40°	1085.7	41.0
0°-60°	1991.0	75.2
0°-90°	2646.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2646.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	839	839	845	841	834	80
15°	808	810	812	814	816	228
25°	746	750	758	765	769	344
35°	662	666	680	699	709	414
45°	555	565	590	627	650	428
55°	425	444	495	553	582	380
65°	282	312	388	450	479	277
75°	134	181	245	249	242	144
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°	840.6	840.6	840.6	840.6	840.6
2.5°	850.9	848.8	842.7	838.6	834.4
5°	838.6	838.6	844.7	840.6	834.4
7.5°	832.4	832.4	832.4	842.7	832.4
10°	826.2	828.3	826.2	834.4	826.2
12.5°	820.1	820.1	820.1	822.1	822.1
15°	807.7	809.8	811.8	813.9	815.9
17.5°	795.4	797.4	801.6	803.6	805.7
20°	783.1	785.1	791.3	791.3	795.4
22.5°	766.6	766.6	774.8	776.9	783.1
25°	746.1	750.2	758.4	764.6	768.7
27.5°	727.6	731.7	739.9	748.1	754.3
30°	707.0	711.1	719.3	731.7	739.9
32.5°	684.4	688.5	700.8	715.2	723.5
35°	661.8	665.9	680.3	698.8	709.1
37.5°	637.1	643.3	659.7	680.3	692.6
40°	612.5	618.6	637.1	659.7	678.2
42.5°	583.7	591.9	612.5	643.3	663.9
45°	554.9	565.2	589.9	626.9	649.5
47.5°	524.1	534.4	563.1	610.4	635.1
50°	493.3	505.6	540.5	591.9	618.6
52.5°	460.4	472.7	517.9	573.4	602.2
55°	425.4	443.9	495.3	552.9	581.6
57.5°	390.5	411.1	468.6	530.3	561.1
60°	353.5	378.2	443.9	505.6	536.4
62.5°	318.6	345.3	417.2	478.9	509.7
65°	281.6	312.4	388.4	450.1	478.9
67.5°	242.5	281.6	355.6	415.2	443.9
70°	203.5	248.7	322.7	378.2	404.9
72.5°	168.5	215.8	285.7	333.0	333.0
75°	133.6	180.9	244.6	248.7	242.5
77.5°	102.8	148.0	191.1	174.7	178.8
80°	76.0	113.0	121.3	127.4	131.5
82.5°	51.4	76.0	78.1	82.2	82.2
85°	32.9	39.1	41.1	39.1	37.0
87.5°	14.4	16.4	12.3	8.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)