

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-SQP-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-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

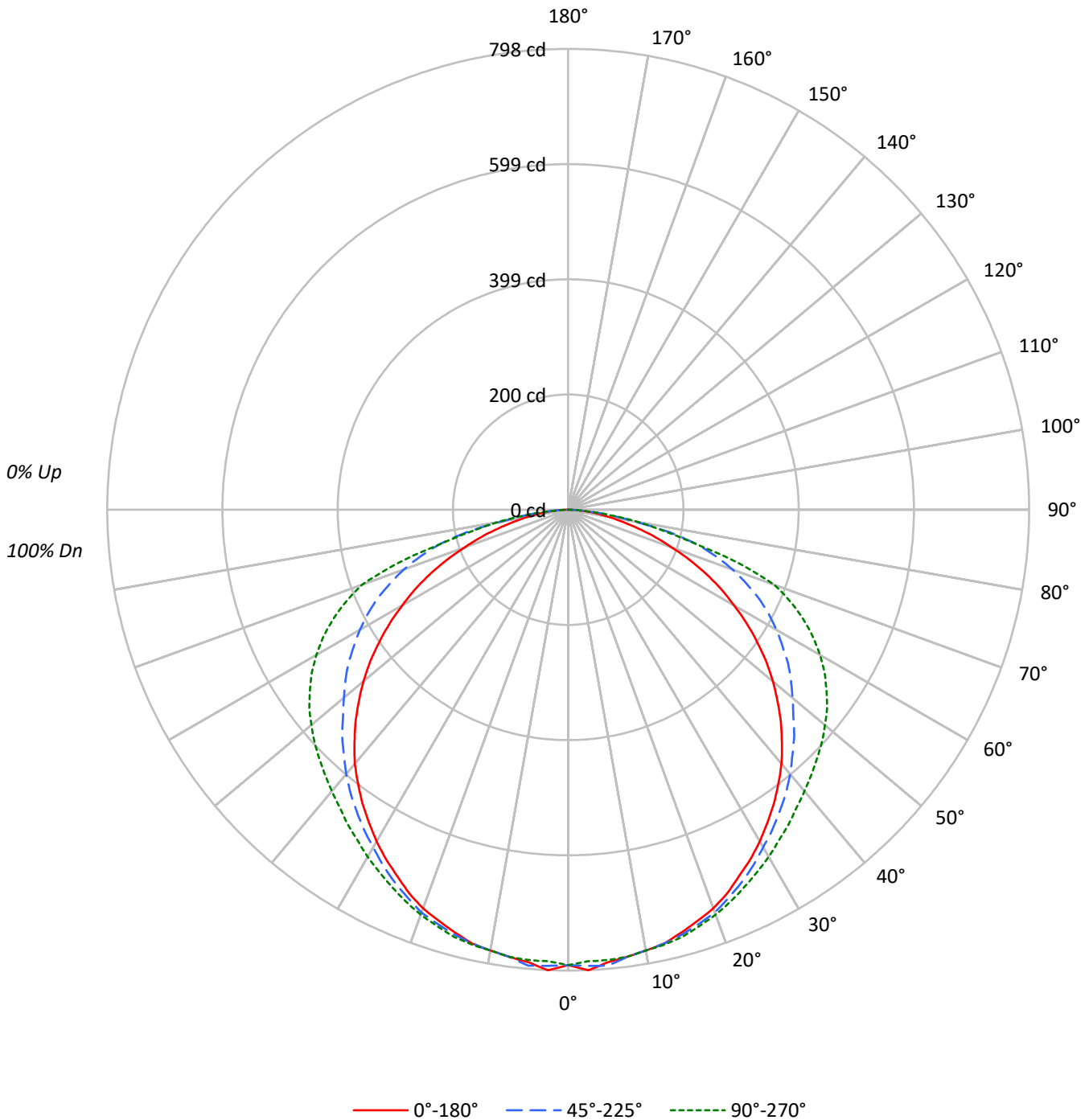
Lumens per Lamp: N/A
Luminaire Lumens: 2482.8 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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°	1061	1061	1061
5°	1060	1065	1053
10°	1054	1049	1050
15°	1048	1046	1052
20°	1042	1043	1049
25°	1027	1031	1046
30°	1016	1017	1048
35°	1002	1011	1056
40°	988	1005	1073
45°	966	1000	1104
50°	941	998	1147
55°	904	1013	1195
60°	855	1027	1246
65°	798	1042	1292
70°	703	1040	1314
75°	596	996	997
80°	484	677	745
85°	371	371	341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.0
10°-20°	215.0	8.7
20°-30°	327.7	13.2
30°-40°	400.9	16.1
40°-50°	431.4	17.4
50°-60°	417.9	16.8
60°-70°	354.0	14.3
70°-80°	214.0	8.6
80°-90°	47.0	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°	617.6	24.9
0°-40°	1018.5	41.0
0°-60°	1867.8	75.2
0°-90°	2482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	787	787	792	789	783	75
15°	758	760	762	764	766	214
25°	700	704	712	717	721	323
35°	621	625	638	656	665	388
45°	521	530	553	588	609	401
55°	399	416	465	519	546	356
65°	264	293	364	422	449	260
75°	125	170	229	233	228	135
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.6	788.6	788.6	788.6	788.6
2.5°	798.3	796.3	790.6	786.7	782.8
5°	786.7	786.7	792.5	788.6	782.8
7.5°	780.9	780.9	780.9	790.6	780.9
10°	775.1	777.0	775.1	782.8	775.1
12.5°	769.3	769.3	769.3	771.3	771.3
15°	757.7	759.7	761.6	763.5	765.5
17.5°	746.2	748.1	752.0	753.9	755.8
20°	734.6	736.5	742.3	742.3	746.2
22.5°	719.2	719.2	726.9	728.8	734.6
25°	700.0	703.8	711.5	717.2	721.1
27.5°	682.6	686.5	694.2	701.9	707.7
30°	663.3	667.2	674.9	686.5	694.2
32.5°	642.1	645.9	657.5	671.0	678.7
35°	620.8	624.7	638.2	655.6	665.2
37.5°	597.7	603.5	618.9	638.2	649.8
40°	574.6	580.4	597.7	618.9	636.3
42.5°	547.6	555.3	574.6	603.5	622.8
45°	520.6	530.3	553.4	588.0	609.3
47.5°	491.7	501.3	528.3	572.7	595.8
50°	462.7	474.3	507.1	555.3	580.4
52.5°	431.9	443.5	485.9	538.0	565.0
55°	399.1	416.5	464.6	518.7	545.7
57.5°	366.3	385.6	439.7	497.4	526.4
60°	331.6	354.8	416.5	474.3	503.2
62.5°	298.9	324.0	391.4	449.3	478.2
65°	264.2	293.1	364.4	422.3	449.3
67.5°	227.5	264.2	333.5	389.5	416.5
70°	190.9	233.3	302.8	354.8	379.8
72.5°	158.1	202.4	268.0	312.4	312.4
75°	125.3	169.7	229.4	233.3	227.5
77.5°	96.4	138.8	179.4	163.9	167.8
80°	71.3	106.0	113.7	119.5	123.4
82.5°	48.2	71.3	73.2	77.1	77.1
85°	30.9	36.7	38.6	36.7	34.7
87.5°	13.5	15.4	11.6	7.7	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)