

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-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-LD5-40-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

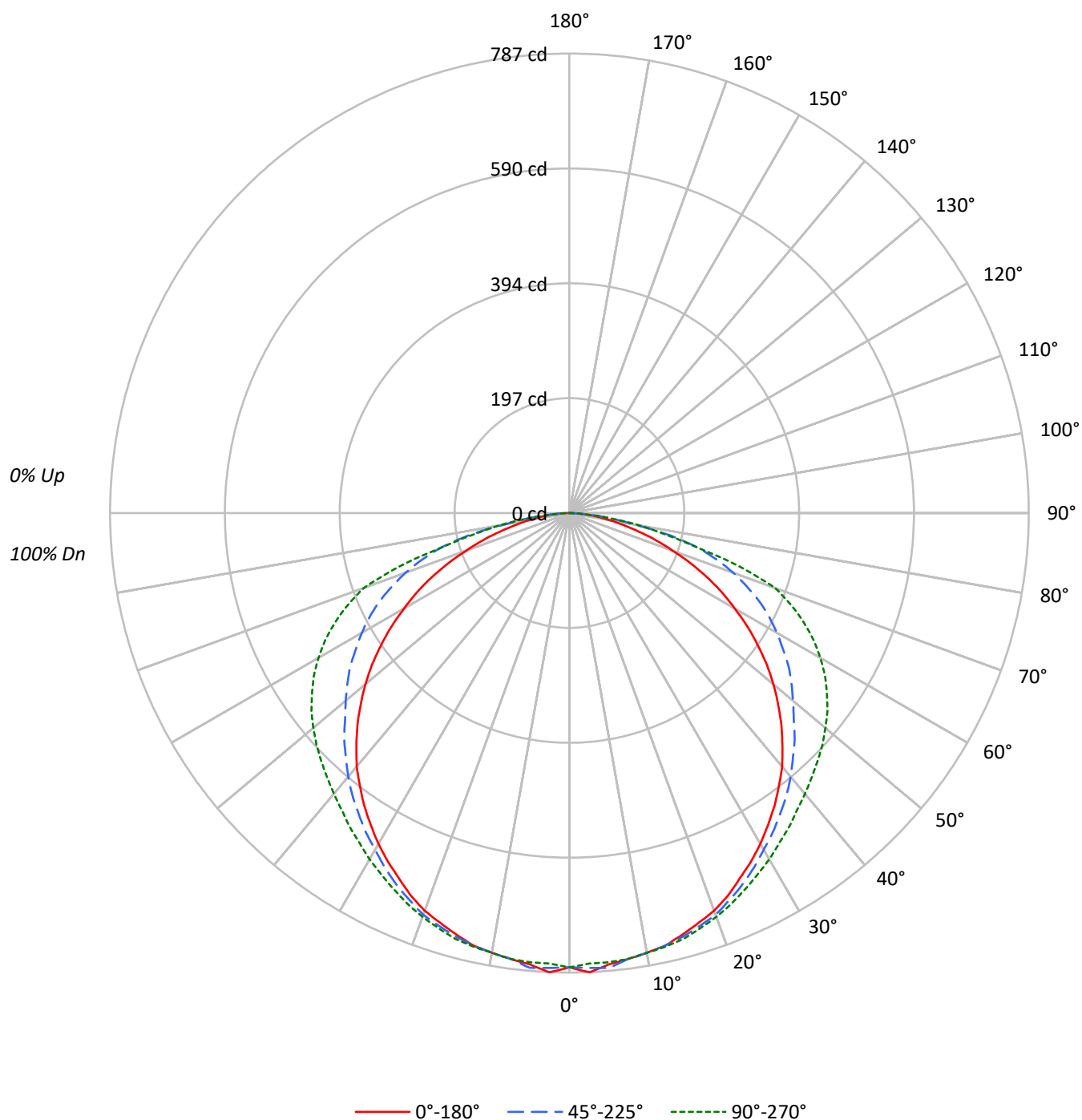
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	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°	1047	1047	1047
5°	1046	1051	1038
10°	1040	1035	1036
15°	1034	1032	1038
20°	1028	1029	1035
25°	1013	1017	1032
30°	1002	1004	1034
35°	989	997	1041
40°	975	991	1058
45°	953	986	1089
50°	928	985	1131
55°	892	1000	1178
60°	844	1012	1229
65°	787	1028	1274
70°	693	1025	1296
75°	588	982	983
80°	478	668	735
85°	365	365	336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.0
10°-20°	212.1	8.7
20°-30°	323.2	13.2
30°-40°	395.5	16.1
40°-50°	425.5	17.4
50°-60°	412.2	16.8
60°-70°	349.2	14.3
70°-80°	211.1	8.6
80°-90°	46.4	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°	609.2	24.9
0°-40°	1004.7	41.0
0°-60°	1842.4	75.2
0°-90°	2449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	776	776	782	778	772	74
15°	747	749	751	753	755	211
25°	690	694	702	708	711	319
35°	612	616	630	647	656	383
45°	514	523	546	580	601	396
55°	394	411	458	512	538	352
65°	261	289	360	416	443	257
75°	124	167	226	230	224	133
85°	30	36	38	36	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.9	777.9	777.9	777.9	777.9
2.5°	787.4	785.5	779.8	776.0	772.2
5°	776.0	776.0	781.7	777.9	772.2
7.5°	770.3	770.3	770.3	779.8	770.3
10°	764.6	766.5	764.6	772.2	764.6
12.5°	758.8	758.8	758.8	760.7	760.7
15°	747.4	749.3	751.2	753.1	755.0
17.5°	736.0	737.9	741.7	743.6	745.5
20°	724.6	726.5	732.2	732.2	736.0
22.5°	709.4	709.4	717.0	718.9	724.6
25°	690.4	694.2	701.8	707.5	711.3
27.5°	673.3	677.1	684.7	692.3	698.0
30°	654.2	658.0	665.7	677.1	684.7
32.5°	633.3	637.1	648.5	661.9	669.5
35°	612.4	616.2	629.5	646.6	656.1
37.5°	589.6	595.3	610.5	629.5	640.9
40°	566.8	572.5	589.6	610.5	627.6
42.5°	540.1	547.7	566.8	595.3	614.3
45°	513.5	523.0	545.8	580.1	601.0
47.5°	485.0	494.5	521.1	564.9	587.7
50°	456.4	467.9	500.2	547.7	572.5
52.5°	426.0	437.4	479.3	530.6	557.2
55°	393.7	410.8	458.4	511.6	538.2
57.5°	361.4	380.4	433.6	490.7	519.2
60°	327.1	349.9	410.8	467.9	496.4
62.5°	294.8	319.5	386.1	443.1	471.7
65°	260.6	289.1	359.5	416.5	443.1
67.5°	224.4	260.6	329.0	384.2	410.8
70°	188.3	230.1	298.6	349.9	374.7
72.5°	156.0	199.7	264.4	308.1	308.1
75°	123.6	167.4	226.3	230.1	224.4
77.5°	95.1	136.9	176.9	161.7	165.5
80°	70.4	104.6	112.2	117.9	121.7
82.5°	47.5	70.4	72.3	76.1	76.1
85°	30.4	36.1	38.0	36.1	34.2
87.5°	13.3	15.2	11.4	7.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)