

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-LD5-50-SQP-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-LD5-50-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3445.8 lumens
Efficiency: N/A
Efficacy: 84.7 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

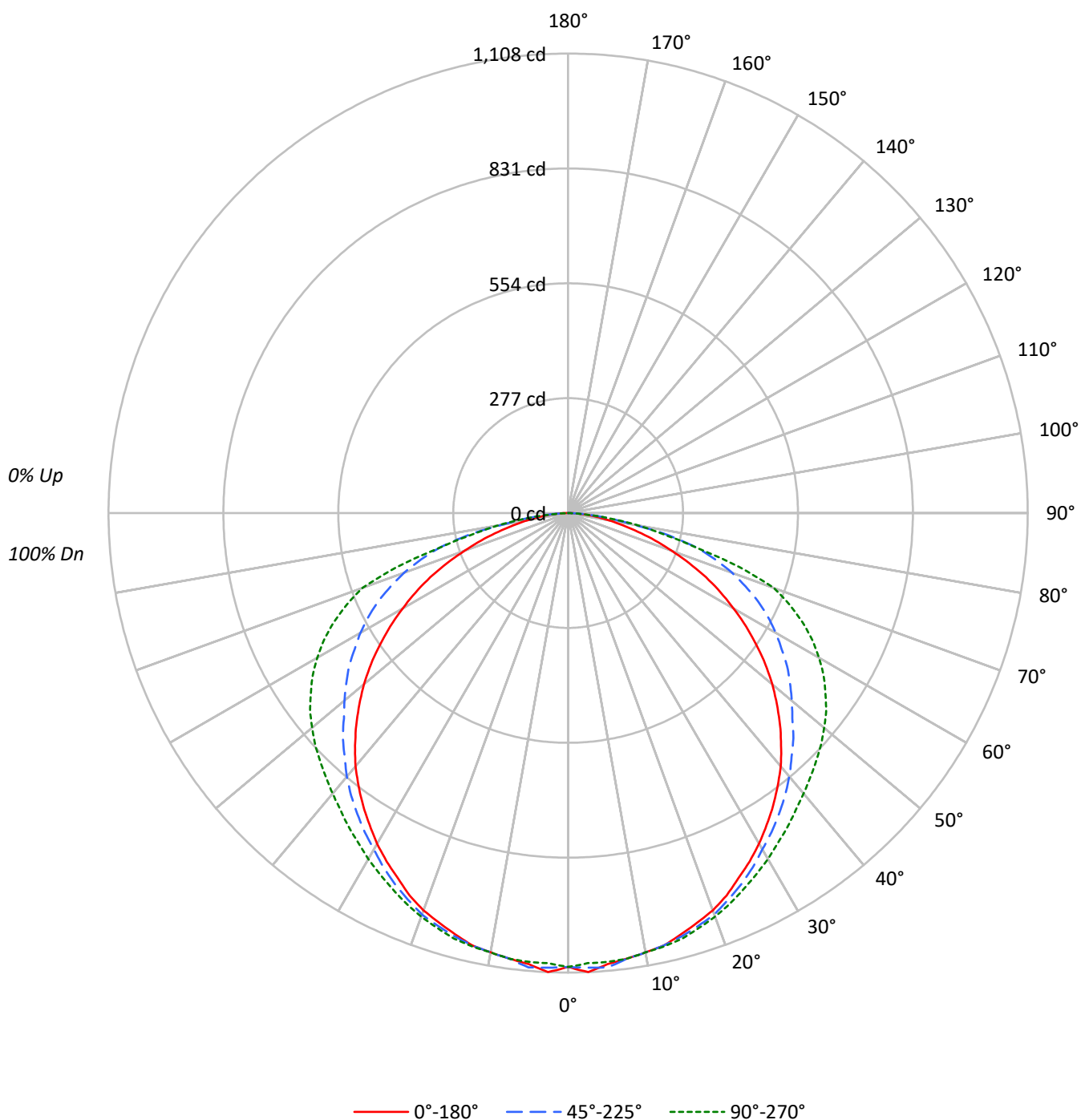
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1473	1473	1473
5°	1471	1479	1461
10°	1463	1456	1457
15°	1455	1452	1460
20°	1447	1447	1456
25°	1426	1431	1452
30°	1410	1412	1455
35°	1391	1403	1465
40°	1372	1395	1489
45°	1341	1388	1532
50°	1305	1386	1591
55°	1255	1406	1658
60°	1187	1425	1730
65°	1108	1446	1793
70°	975	1442	1823
75°	827	1382	1384
80°	672	941	1034
85°	514	514	473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.0
10°-20°	298.4	8.7
20°-30°	454.8	13.2
30°-40°	556.4	16.1
40°-50°	598.7	17.4
50°-60°	580.0	16.8
60°-70°	491.3	14.3
70°-80°	297.0	8.6
80°-90°	65.2	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°	857.1	24.9
0°-40°	1413.6	41.0
0°-60°	2592.3	75.2
0°-90°	3445.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1092	1092	1100	1094	1086	104
15°	1052	1054	1057	1060	1062	297
25°	971	977	987	996	1001	448
35°	862	867	886	910	923	539
45°	722	736	768	816	846	557
55°	554	578	645	720	757	495
65°	367	407	506	586	624	361
75°	174	236	318	324	316	187
85°	43	51	54	51	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1107.9	1105.2	1097.2	1091.8	1086.4
5°	1091.8	1091.8	1099.8	1094.5	1086.4
7.5°	1083.8	1083.8	1083.8	1097.2	1083.8
10°	1075.7	1078.4	1075.7	1086.4	1075.7
12.5°	1067.7	1067.7	1067.7	1070.4	1070.4
15°	1051.7	1054.3	1057.0	1059.7	1062.4
17.5°	1035.6	1038.3	1043.6	1046.3	1049.0
20°	1019.5	1022.2	1030.3	1030.3	1035.6
22.5°	998.1	998.1	1008.8	1011.5	1019.5
25°	971.4	976.7	987.4	995.5	1000.8
27.5°	947.3	952.6	963.4	974.1	982.1
30°	920.5	925.9	936.6	952.6	963.4
32.5°	891.1	896.5	912.5	931.2	941.9
35°	861.7	867.0	885.7	909.8	923.2
37.5°	829.6	837.6	859.0	885.7	901.8
40°	797.4	805.5	829.6	859.0	883.1
42.5°	760.0	770.7	797.4	837.6	864.3
45°	722.5	735.9	768.0	816.2	845.6
47.5°	682.4	695.8	733.2	794.8	826.9
50°	642.2	658.3	703.8	770.7	805.5
52.5°	599.4	615.5	674.3	746.6	784.1
55°	553.9	578.0	644.9	719.8	757.3
57.5°	508.4	535.2	610.1	690.4	730.5
60°	460.3	492.4	578.0	658.3	698.4
62.5°	414.8	449.6	543.2	623.5	663.6
65°	366.6	406.7	505.8	586.0	623.5
67.5°	315.8	366.6	462.9	540.5	578.0
70°	264.9	323.8	420.1	492.4	527.2
72.5°	219.4	281.0	372.0	433.5	433.5
75°	173.9	235.5	318.4	323.8	315.8
77.5°	133.8	192.7	248.9	227.5	232.8
80°	99.0	147.2	157.9	165.9	171.3
82.5°	66.9	99.0	101.7	107.0	107.0
85°	42.8	50.8	53.5	50.8	48.2
87.5°	18.7	21.4	16.1	10.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)