

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-LD5-50SE-RDP-UNV-L850-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-LD5-50SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

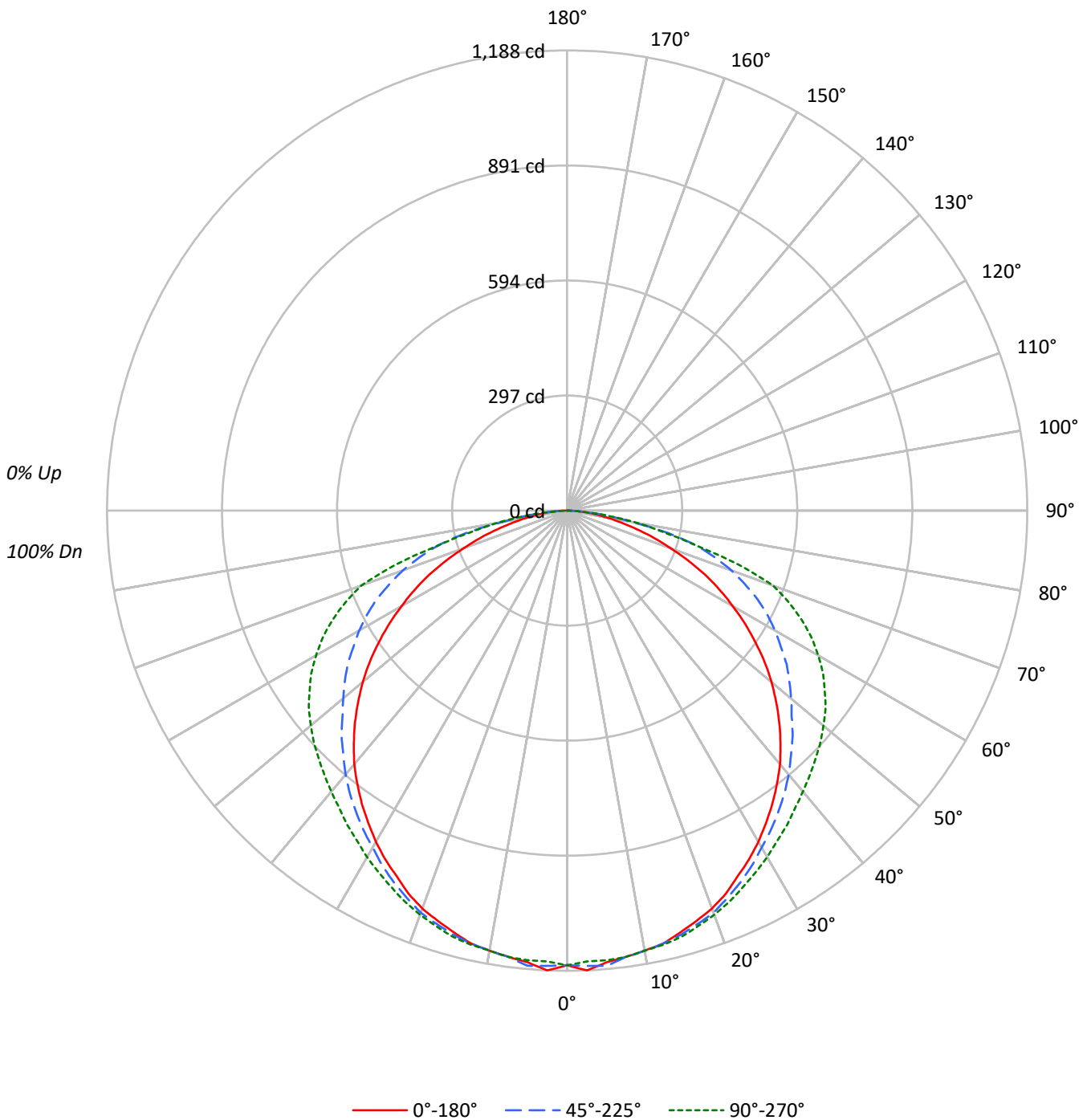
Lumens per Lamp: N/A
Luminaire Lumens: 3695.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (A_{in}): 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°	1579	1579	1579
5°	1578	1586	1567
10°	1569	1561	1562
15°	1561	1557	1566
20°	1551	1552	1562
25°	1529	1534	1557
30°	1512	1514	1560
35°	1492	1504	1571
40°	1471	1496	1596
45°	1438	1488	1643
50°	1400	1486	1706
55°	1345	1508	1778
60°	1273	1528	1855
65°	1188	1551	1922
70°	1046	1547	1955
75°	887	1482	1483
80°	721	1008	1109
85°	551	552	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.0
10°-20°	320.0	8.7
20°-30°	487.7	13.2
30°-40°	596.7	16.1
40°-50°	642.1	17.4
50°-60°	622.0	16.8
60°-70°	526.9	14.3
70°-80°	318.5	8.6
80°-90°	70.0	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°	919.2	24.9
0°-40°	1515.9	41.0
0°-60°	2780.0	75.2
0°-90°	3695.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1171	1171	1180	1174	1165	111
15°	1128	1131	1134	1136	1139	318
25°	1042	1047	1059	1068	1073	481
35°	924	930	950	976	990	578
45°	775	789	824	875	907	597
55°	594	620	692	772	812	531
65°	393	436	542	628	669	387
75°	186	252	342	347	339	200
85°	46	54	57	54	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.7	1173.7	1173.7	1173.7	1173.7
2.5°	1188.1	1185.2	1176.6	1170.8	1165.1
5°	1170.8	1170.8	1179.5	1173.7	1165.1
7.5°	1162.2	1162.2	1162.2	1176.6	1162.2
10°	1153.6	1156.5	1153.6	1165.1	1153.6
12.5°	1145.0	1145.0	1145.0	1147.9	1147.9
15°	1127.8	1130.7	1133.5	1136.4	1139.3
17.5°	1110.6	1113.4	1119.2	1122.1	1124.9
20°	1093.4	1096.2	1104.8	1104.8	1110.6
22.5°	1070.4	1070.4	1081.9	1084.8	1093.4
25°	1041.7	1047.4	1058.9	1067.5	1073.3
27.5°	1015.9	1021.6	1033.1	1044.6	1053.2
30°	987.2	992.9	1004.4	1021.6	1033.1
32.5°	955.6	961.4	978.6	998.7	1010.1
35°	924.0	929.8	949.9	975.7	990.1
37.5°	889.6	898.2	921.2	949.9	967.1
40°	855.2	863.8	889.6	921.2	947.0
42.5°	815.0	826.5	855.2	898.2	926.9
45°	774.8	789.2	823.6	875.3	906.8
47.5°	731.8	746.1	786.3	852.3	886.7
50°	688.7	706.0	754.7	826.5	863.8
52.5°	642.8	660.0	723.2	800.7	840.8
55°	594.0	619.9	691.6	772.0	812.1
57.5°	545.2	573.9	654.3	740.4	783.4
60°	493.6	528.0	619.9	706.0	749.0
62.5°	444.8	482.1	582.6	668.6	711.7
65°	393.2	436.2	542.4	628.5	668.6
67.5°	338.6	393.2	496.5	579.7	619.9
70°	284.1	347.2	450.5	528.0	565.3
72.5°	235.3	301.3	398.9	464.9	464.9
75°	186.5	252.5	341.5	347.2	338.6
77.5°	143.5	206.6	266.9	243.9	249.7
80°	106.2	157.8	169.3	177.9	183.7
82.5°	71.7	106.2	109.0	114.8	114.8
85°	45.9	54.5	57.4	54.5	51.7
87.5°	20.1	23.0	17.2	11.5	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)