

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-LD5-55-SQP-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-LD5-55-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

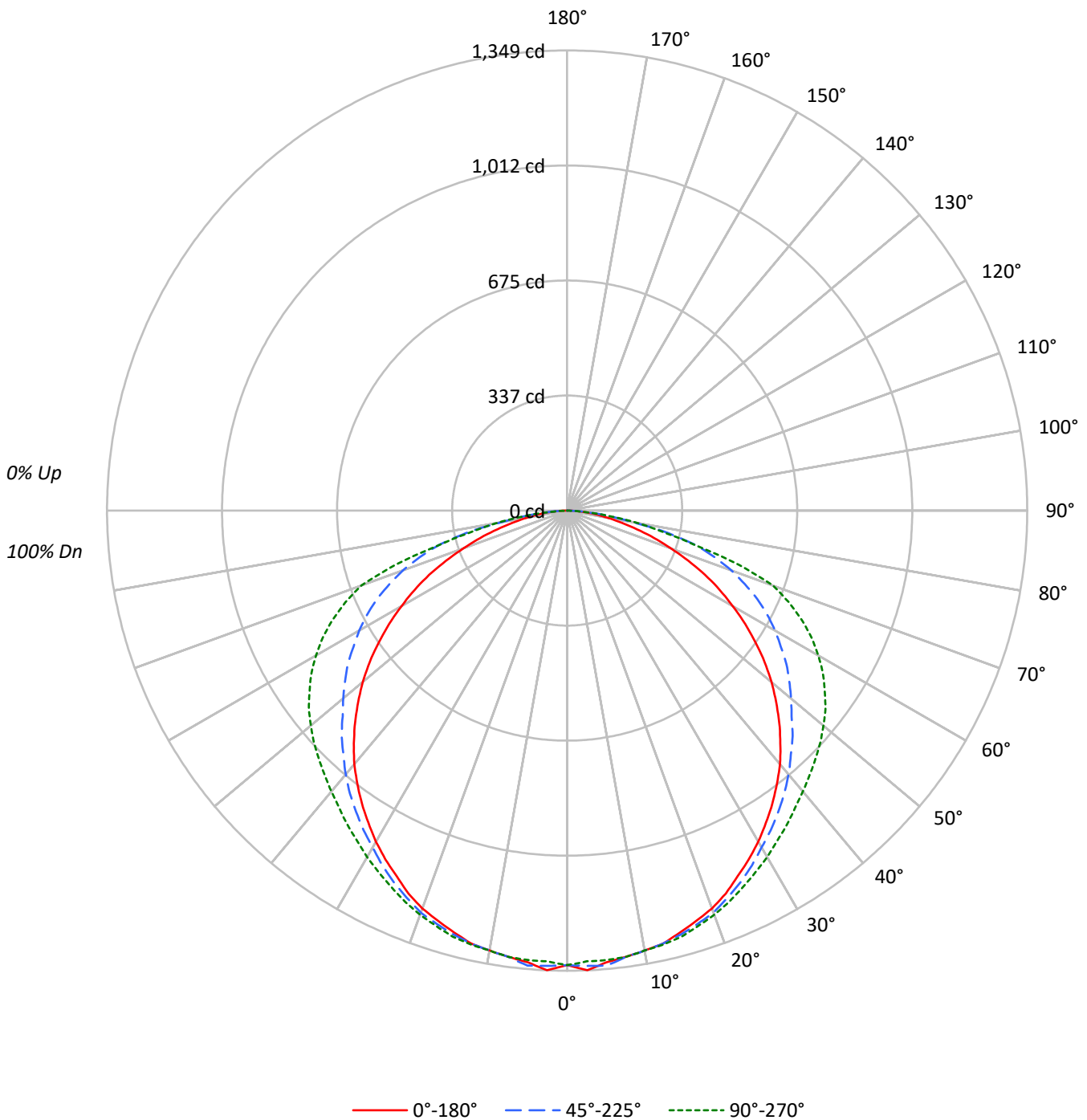
Lumens per Lamp: N/A
Luminaire Lumens: 4195.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 45.8
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°	1793	1793	1793
5°	1791	1800	1779
10°	1782	1773	1774
15°	1772	1767	1778
20°	1761	1762	1773
25°	1735	1742	1768
30°	1716	1719	1771
35°	1694	1708	1784
40°	1670	1698	1812
45°	1633	1690	1866
50°	1589	1687	1937
55°	1527	1712	2019
60°	1445	1734	2106
65°	1349	1760	2183
70°	1187	1756	2220
75°	1007	1682	1684
80°	818	1145	1259
85°	626	627	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.0
10°-20°	363.3	8.7
20°-30°	553.7	13.2
30°-40°	677.5	16.1
40°-50°	728.9	17.4
50°-60°	706.1	16.8
60°-70°	598.1	14.3
70°-80°	361.6	8.6
80°-90°	79.4	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°	1043.5	24.9
0°-40°	1721.0	41.0
0°-60°	3156.1	75.2
0°-90°	4195.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1329	1329	1339	1332	1323	126
15°	1280	1284	1287	1290	1293	362
25°	1183	1189	1202	1212	1218	546
35°	1049	1056	1078	1108	1124	656
45°	880	896	935	994	1030	678
55°	674	704	785	876	922	602
65°	446	495	616	714	759	439
75°	212	287	388	394	384	228
85°	52	62	65	62	59	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1348.8	1345.5	1335.8	1329.2	1322.7
5°	1329.2	1329.2	1339.0	1332.5	1322.7
7.5°	1319.5	1319.5	1319.5	1335.8	1319.5
10°	1309.7	1313.0	1309.7	1322.7	1309.7
12.5°	1299.9	1299.9	1299.9	1303.2	1303.2
15°	1280.4	1283.6	1286.9	1290.2	1293.4
17.5°	1260.8	1264.1	1270.6	1273.9	1277.1
20°	1241.3	1244.5	1254.3	1254.3	1260.8
22.5°	1215.2	1215.2	1228.3	1231.5	1241.3
25°	1182.6	1189.2	1202.2	1212.0	1218.5
27.5°	1153.3	1159.8	1172.9	1185.9	1195.7
30°	1120.7	1127.3	1140.3	1159.8	1172.9
32.5°	1084.9	1091.4	1111.0	1133.8	1146.8
35°	1049.1	1055.6	1078.4	1107.7	1124.0
37.5°	1010.0	1019.7	1045.8	1078.4	1097.9
40°	970.9	980.6	1010.0	1045.8	1075.1
42.5°	925.3	938.3	970.9	1019.7	1052.3
45°	879.6	895.9	935.0	993.7	1029.5
47.5°	830.8	847.1	892.7	967.6	1006.7
50°	781.9	801.5	856.8	938.3	980.6
52.5°	729.8	749.3	821.0	909.0	954.6
55°	674.4	703.7	785.2	876.4	922.0
57.5°	619.0	651.6	742.8	840.6	889.4
60°	560.4	599.5	703.7	801.5	850.3
62.5°	505.0	547.3	661.4	759.1	808.0
65°	446.3	495.2	615.8	713.5	759.1
67.5°	384.4	446.3	563.6	658.1	703.7
70°	322.5	394.2	511.5	599.5	641.8
72.5°	267.2	342.1	452.9	527.8	527.8
75°	211.8	286.7	387.7	394.2	384.4
77.5°	162.9	234.6	303.0	276.9	283.4
80°	120.5	179.2	192.2	202.0	208.5
82.5°	81.4	120.5	123.8	130.3	130.3
85°	52.1	61.9	65.2	61.9	58.6
87.5°	22.8	26.1	19.5	13.0	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)