

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-LD5-55SE-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-LD5-55SE-RDP-UNV-L850-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

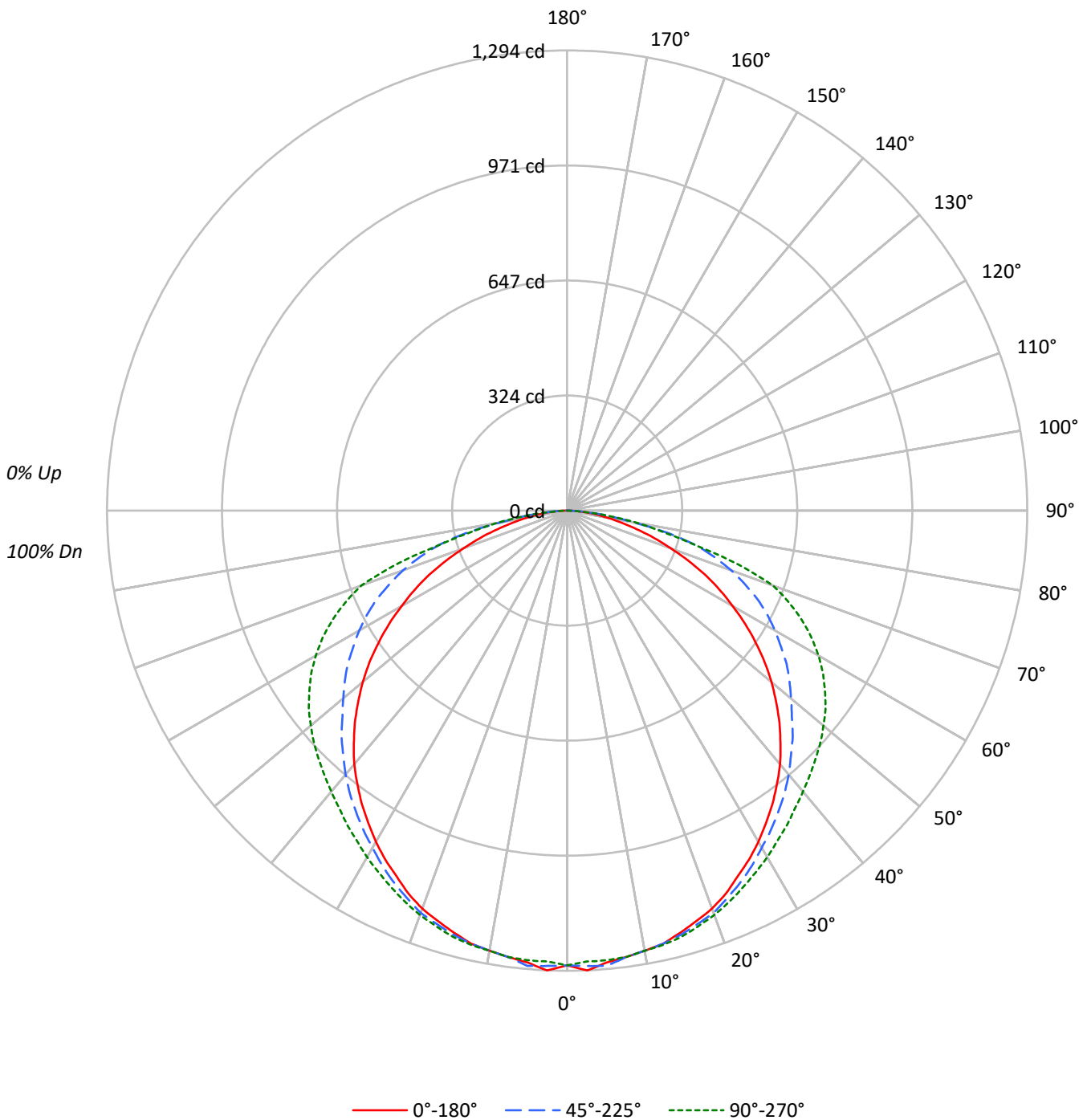
Lumens per Lamp: N/A  
Luminaire Lumens: 4025.9 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 54.69  
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°	1720	1720	1720
5°	1719	1728	1707
10°	1710	1701	1702
15°	1700	1696	1706
20°	1690	1691	1701
25°	1665	1671	1696
30°	1647	1650	1700
35°	1625	1639	1712
40°	1603	1630	1739
45°	1567	1621	1790
50°	1525	1619	1859
55°	1466	1643	1937
60°	1387	1664	2021
65°	1294	1689	2095
70°	1139	1686	2130
75°	966	1614	1616
80°	785	1099	1208
85°	600	601	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	3.0
10°-20°	348.7	8.7
20°-30°	531.3	13.2
30°-40°	650.1	16.1
40°-50°	699.5	17.4
50°-60°	677.6	16.8
60°-70°	574.0	14.3
70°-80°	347.0	8.6
80°-90°	76.2	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°	1001.4	24.9
0°-40°	1651.5	41.0
0°-60°	3028.7	75.2
0°-90°	4025.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1276	1276	1285	1279	1269	121
15°	1229	1232	1235	1238	1241	347
25°	1135	1141	1154	1163	1169	524
35°	1007	1013	1035	1063	1079	630
45°	844	860	897	954	988	651
55°	647	675	754	841	885	578
65°	428	475	591	685	728	422
75°	203	275	372	378	369	218
85°	50	59	62	59	56	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1294.3	1291.2	1281.8	1275.6	1269.3
5°	1275.6	1275.6	1285.0	1278.7	1269.3
7.5°	1266.2	1266.2	1266.2	1281.8	1266.2
10°	1256.8	1260.0	1256.8	1269.3	1256.8
12.5°	1247.5	1247.5	1247.5	1250.6	1250.6
15°	1228.7	1231.8	1234.9	1238.1	1241.2
17.5°	1209.9	1213.1	1219.3	1222.4	1225.6
20°	1191.2	1194.3	1203.7	1203.7	1209.9
22.5°	1166.2	1166.2	1178.7	1181.8	1191.2
25°	1134.9	1141.2	1153.7	1163.0	1169.3
27.5°	1106.8	1113.0	1125.5	1138.0	1147.4
30°	1075.5	1081.7	1094.3	1113.0	1125.5
32.5°	1041.1	1047.4	1066.1	1088.0	1100.5
35°	1006.7	1013.0	1034.9	1063.0	1078.6
37.5°	969.2	978.6	1003.6	1034.9	1053.6
40°	931.7	941.1	969.2	1003.6	1031.7
42.5°	887.9	900.4	931.7	978.6	1009.8
45°	844.1	859.8	897.3	953.6	988.0
47.5°	797.2	812.9	856.6	928.6	966.1
50°	750.3	769.1	822.3	900.4	941.1
52.5°	700.3	719.1	787.9	872.3	916.0
55°	647.2	675.3	753.5	841.0	884.8
57.5°	594.0	625.3	712.8	806.6	853.5
60°	537.7	575.3	675.3	769.1	816.0
62.5°	484.6	525.2	634.7	728.5	775.4
65°	428.3	475.2	590.9	684.7	728.5
67.5°	368.9	428.3	540.9	631.5	675.3
70°	309.5	378.3	490.9	575.3	615.9
72.5°	256.4	328.3	434.6	506.5	506.5
75°	203.2	275.1	372.0	378.3	368.9
77.5°	156.3	225.1	290.8	265.7	272.0
80°	115.7	172.0	184.5	193.8	200.1
82.5°	78.2	115.7	118.8	125.1	125.1
85°	50.0	59.4	62.5	59.4	56.3
87.5°	21.9	25.0	18.8	12.5	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)