

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

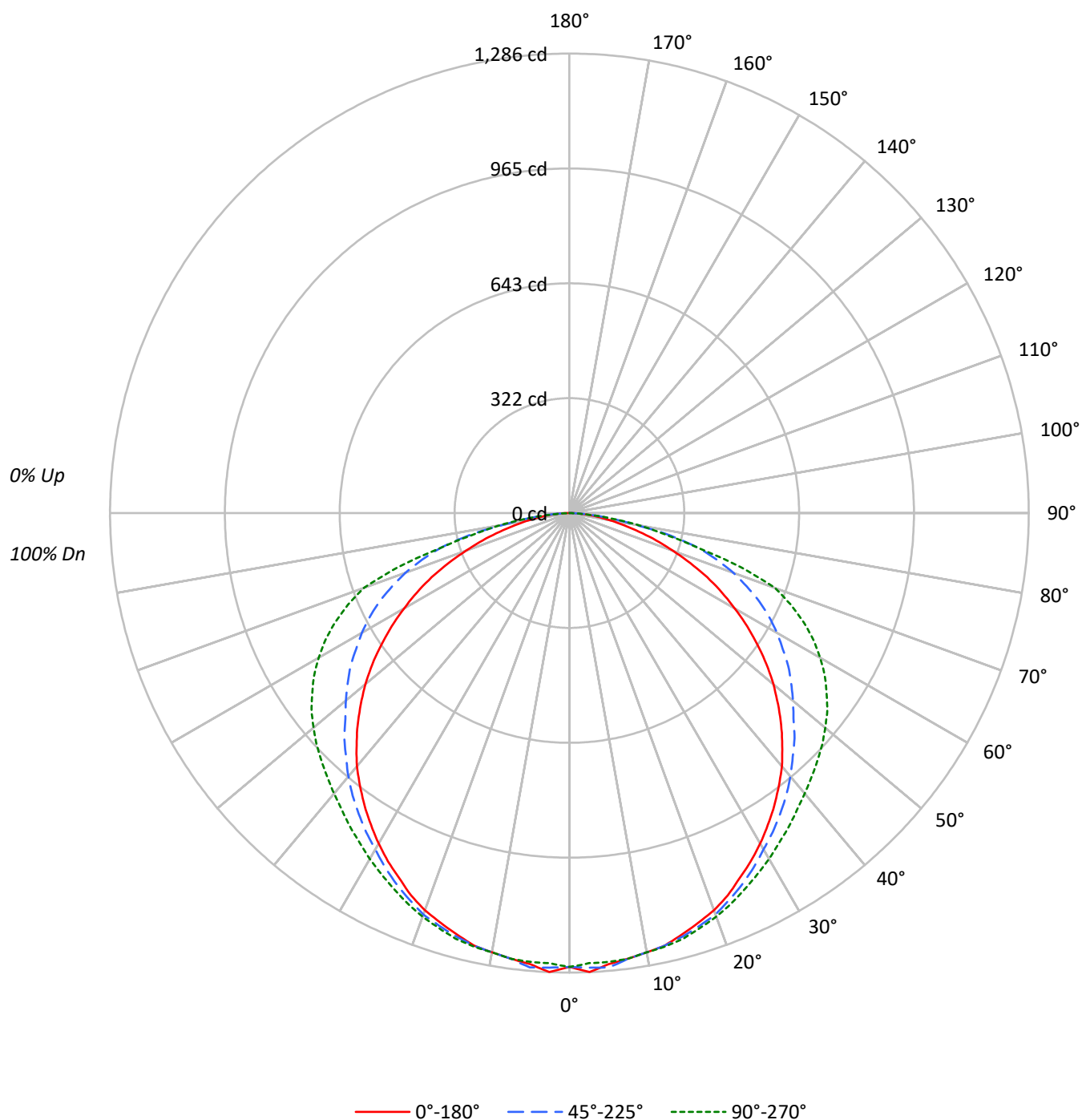
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1709	1709	1709
5°	1708	1716	1696
10°	1698	1690	1691
15°	1689	1685	1695
20°	1679	1679	1690
25°	1654	1660	1685
30°	1636	1638	1688
35°	1614	1628	1700
40°	1592	1619	1727
45°	1557	1611	1778
50°	1515	1608	1847
55°	1456	1632	1924
60°	1378	1653	2007
65°	1286	1678	2081
70°	1132	1674	2116
75°	960	1604	1606
80°	780	1091	1200
85°	597	597	549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.0
10°-20°	346.3	8.7
20°-30°	527.8	13.2
30°-40°	645.8	16.1
40°-50°	694.8	17.4
50°-60°	673.1	16.8
60°-70°	570.2	14.3
70°-80°	344.7	8.6
80°-90°	75.7	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°	994.7	24.9
0°-40°	1640.5	41.0
0°-60°	3008.4	75.2
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1267	1267	1276	1270	1261	120
15°	1220	1224	1227	1230	1233	345
25°	1127	1134	1146	1155	1162	520
35°	1000	1006	1028	1056	1071	625
45°	838	854	891	947	981	646
55°	643	671	748	835	879	574
65°	426	472	587	680	724	419
75°	202	273	370	376	366	217
85°	50	59	62	59	56	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.2	1270.2	1270.2	1270.2	1270.2
2.5°	1285.7	1282.6	1273.3	1267.1	1260.9
5°	1267.1	1267.1	1276.4	1270.2	1260.9
7.5°	1257.8	1257.8	1257.8	1273.3	1257.8
10°	1248.4	1251.5	1248.4	1260.9	1248.4
12.5°	1239.1	1239.1	1239.1	1242.2	1242.2
15°	1220.5	1223.6	1226.7	1229.8	1232.9
17.5°	1201.9	1205.0	1211.2	1214.3	1217.4
20°	1183.2	1186.3	1195.6	1195.6	1201.9
22.5°	1158.4	1158.4	1170.8	1173.9	1183.2
25°	1127.3	1133.5	1146.0	1155.3	1161.5
27.5°	1099.4	1105.6	1118.0	1130.4	1139.7
30°	1068.3	1074.5	1086.9	1105.6	1118.0
32.5°	1034.2	1040.4	1059.0	1080.7	1093.2
35°	1000.0	1006.2	1027.9	1055.9	1071.4
37.5°	962.7	972.0	996.9	1027.9	1046.6
40°	925.5	934.8	962.7	996.9	1024.8
42.5°	882.0	894.4	925.5	972.0	1003.1
45°	838.5	854.0	891.3	947.2	981.4
47.5°	791.9	807.4	850.9	922.4	959.6
50°	745.3	764.0	816.8	894.4	934.8
52.5°	695.6	714.3	782.6	866.5	909.9
55°	642.9	670.8	748.4	835.4	878.9
57.5°	590.1	621.1	708.1	801.2	847.8
60°	534.2	571.4	670.8	764.0	810.6
62.5°	481.4	521.7	630.4	723.6	770.2
65°	425.5	472.0	587.0	680.1	723.6
67.5°	366.5	425.5	537.3	627.3	670.8
70°	307.5	375.8	487.6	571.4	611.8
72.5°	254.7	326.1	431.7	503.1	503.1
75°	201.9	273.3	369.6	375.8	366.5
77.5°	155.3	223.6	288.8	264.0	270.2
80°	114.9	170.8	183.2	192.5	198.8
82.5°	77.6	114.9	118.0	124.2	124.2
85°	49.7	59.0	62.1	59.0	55.9
87.5°	21.7	24.8	18.6	12.4	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)