

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-L840-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-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

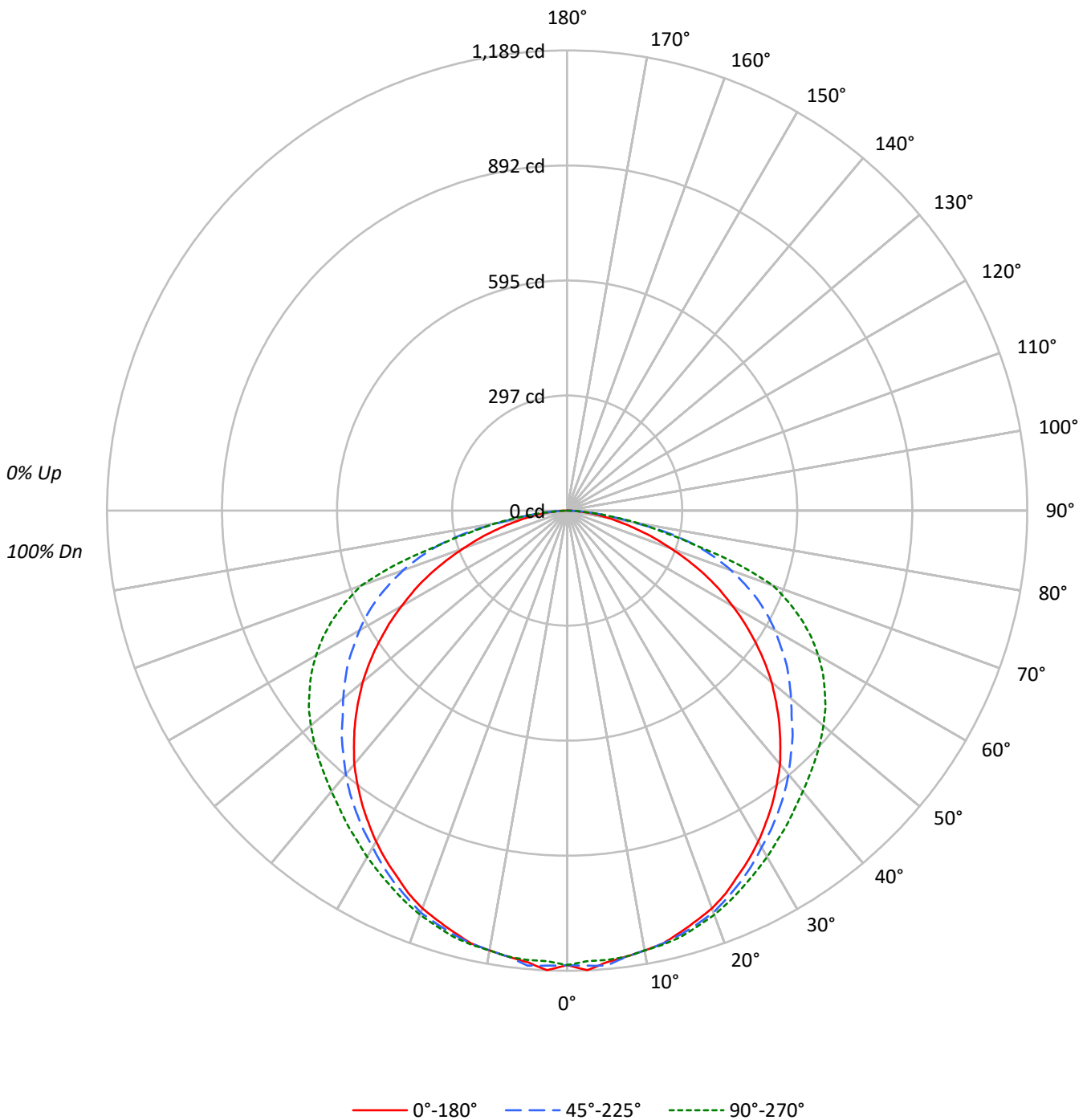
Lumens per Lamp: N/A
Luminaire Lumens: 3696.9 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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°	1580	1580	1580
5°	1579	1586	1567
10°	1570	1562	1563
15°	1561	1557	1567
20°	1552	1553	1562
25°	1529	1535	1558
30°	1513	1515	1561
35°	1492	1505	1572
40°	1472	1497	1597
45°	1439	1489	1644
50°	1400	1487	1707
55°	1346	1509	1779
60°	1274	1528	1856
65°	1188	1551	1923
70°	1046	1548	1956
75°	887	1482	1484
80°	721	1009	1109
85°	551	552	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.0
10°-20°	320.2	8.7
20°-30°	487.9	13.2
30°-40°	597.0	16.1
40°-50°	642.4	17.4
50°-60°	622.2	16.8
60°-70°	527.1	14.3
70°-80°	318.6	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°	919.6	24.9
0°-40°	1516.6	41.0
0°-60°	2781.2	75.2
0°-90°	3696.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1171	1171	1180	1174	1166	111
15°	1128	1131	1134	1137	1140	319
25°	1042	1048	1059	1068	1074	481
35°	924	930	950	976	990	578
45°	775	790	824	876	907	597
55°	594	620	692	772	812	531
65°	393	436	543	629	669	387
75°	187	253	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°	1174.2	1174.2	1174.2	1174.2	1174.2
2.5°	1188.6	1185.7	1177.1	1171.4	1165.6
5°	1171.4	1171.4	1180.0	1174.2	1165.6
7.5°	1162.7	1162.7	1162.7	1177.1	1162.7
10°	1154.1	1157.0	1154.1	1165.6	1154.1
12.5°	1145.5	1145.5	1145.5	1148.4	1148.4
15°	1128.3	1131.2	1134.0	1136.9	1139.8
17.5°	1111.1	1113.9	1119.7	1122.6	1125.4
20°	1093.8	1096.7	1105.3	1105.3	1111.1
22.5°	1070.9	1070.9	1082.4	1085.2	1093.8
25°	1042.2	1047.9	1059.4	1068.0	1073.7
27.5°	1016.3	1022.1	1033.6	1045.0	1053.7
30°	987.6	993.4	1004.8	1022.1	1033.6
32.5°	956.0	961.8	979.0	999.1	1010.6
35°	924.5	930.2	950.3	976.1	990.5
37.5°	890.0	898.6	921.6	950.3	967.5
40°	855.6	864.2	890.0	921.6	947.4
42.5°	815.4	826.8	855.6	898.6	927.3
45°	775.2	789.5	824.0	875.6	907.2
47.5°	732.1	746.5	786.6	852.7	887.1
50°	689.0	706.3	755.1	826.8	864.2
52.5°	643.1	660.3	723.5	801.0	841.2
55°	594.3	620.1	691.9	772.3	812.5
57.5°	545.5	574.2	654.6	740.7	783.8
60°	493.8	528.3	620.1	706.3	749.3
62.5°	445.0	482.3	582.8	668.9	712.0
65°	393.3	436.4	542.6	628.7	668.9
67.5°	338.8	393.3	496.7	579.9	620.1
70°	284.2	347.4	450.7	528.3	565.6
72.5°	235.4	301.5	399.1	465.1	465.1
75°	186.6	252.6	341.6	347.4	338.8
77.5°	143.5	206.7	267.0	244.0	249.8
80°	106.2	157.9	169.4	178.0	183.7
82.5°	71.8	106.2	109.1	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)