

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-L830-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-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3241.2 lumens
Efficiency: N/A
Efficacy: 70.8 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

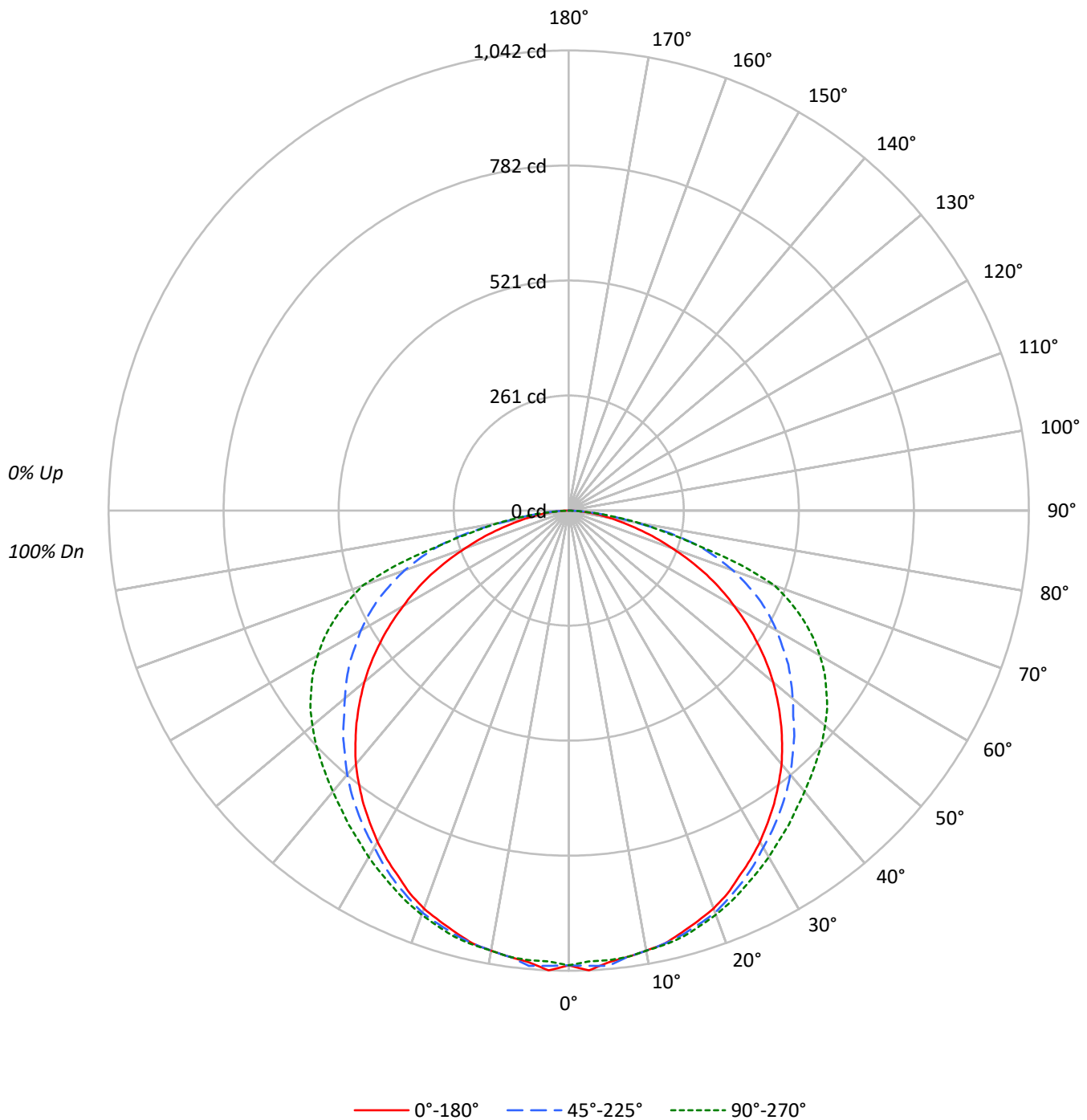
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1385	1385	1385
5°	1384	1391	1374
10°	1376	1370	1370
15°	1369	1366	1374
20°	1361	1361	1370
25°	1341	1346	1366
30°	1326	1328	1368
35°	1308	1320	1378
40°	1290	1312	1400
45°	1262	1305	1441
50°	1228	1303	1497
55°	1180	1323	1560
60°	1117	1340	1627
65°	1042	1360	1686
70°	917	1357	1715
75°	778	1300	1301
80°	632	885	972
85°	484	483	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.0
10°-20°	280.7	8.7
20°-30°	427.8	13.2
30°-40°	523.4	16.1
40°-50°	563.2	17.4
50°-60°	545.5	16.8
60°-70°	462.1	14.3
70°-80°	279.3	8.6
80°-90°	61.4	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°	806.2	24.9
0°-40°	1329.6	41.0
0°-60°	2438.3	75.2
0°-90°	3241.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3241.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1027	1027	1035	1030	1022	98
15°	989	992	994	997	999	279
25°	914	919	929	936	941	422
35°	810	816	833	856	868	507
45°	680	692	722	768	795	524
55°	521	544	607	677	712	465
65°	345	383	476	551	586	340
75°	164	222	300	305	297	176
85°	40	48	50	48	45	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1042.1	1039.6	1032.0	1027.0	1021.9
5°	1027.0	1027.0	1034.6	1029.5	1021.9
7.5°	1019.4	1019.4	1019.4	1032.0	1019.4
10°	1011.8	1014.4	1011.8	1021.9	1011.8
12.5°	1004.3	1004.3	1004.3	1006.8	1006.8
15°	989.2	991.7	994.3	996.7	999.3
17.5°	974.1	976.6	981.6	984.2	986.7
20°	959.0	961.5	969.1	969.1	974.1
22.5°	938.9	938.9	949.0	951.4	959.0
25°	913.7	918.7	928.8	936.3	941.4
27.5°	891.0	896.0	906.1	916.2	923.8
30°	865.9	871.0	881.0	896.0	906.1
32.5°	838.2	843.2	858.3	876.0	886.0
35°	810.5	815.6	833.2	855.9	868.4
37.5°	780.3	787.8	808.0	833.2	848.3
40°	750.1	757.6	780.3	808.0	830.7
42.5°	714.9	724.9	750.1	787.8	813.0
45°	679.6	692.2	722.4	767.7	795.4
47.5°	641.8	654.5	689.7	747.6	777.8
50°	604.1	619.2	662.0	724.9	757.6
52.5°	563.8	578.9	634.3	702.2	737.5
55°	521.1	543.7	606.6	677.1	712.3
57.5°	478.2	503.4	573.9	649.4	687.1
60°	432.9	463.1	543.7	619.2	656.9
62.5°	390.2	422.8	511.0	586.5	624.2
65°	344.8	382.6	475.8	551.3	586.5
67.5°	297.0	344.8	435.5	508.4	543.7
70°	249.2	304.6	395.2	463.1	495.9
72.5°	206.4	264.3	349.9	407.7	407.7
75°	163.6	221.5	299.5	304.6	297.0
77.5°	125.9	181.3	234.1	213.9	219.0
80°	93.1	138.4	148.5	156.1	161.1
82.5°	62.9	93.1	95.7	100.7	100.7
85°	40.3	47.8	50.3	47.8	45.3
87.5°	17.6	20.1	15.1	10.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)