

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-LD5-45SE-SQP-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-LD5-45SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3221.6 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

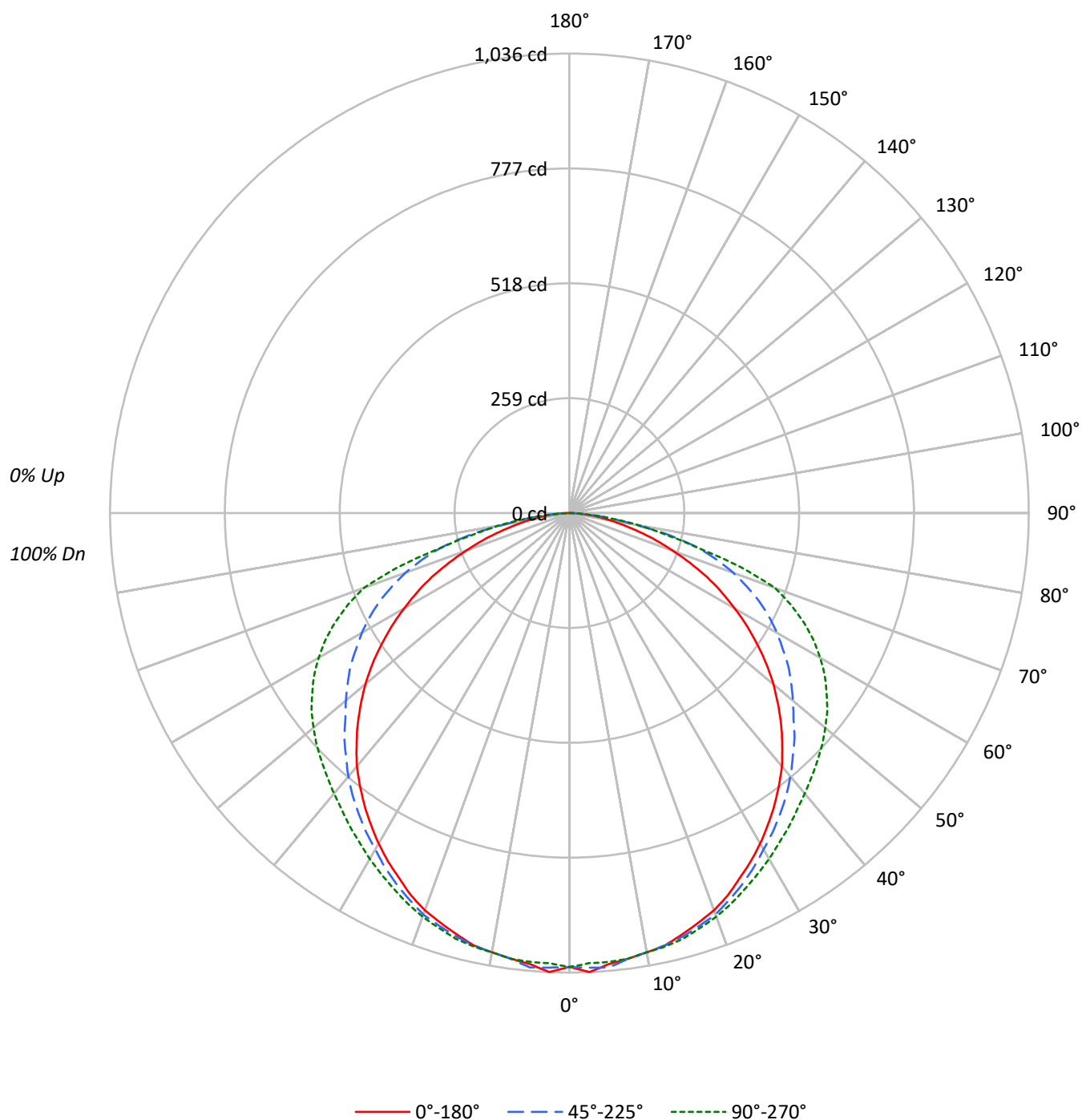
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1377	1377	1377
5°	1376	1382	1366
10°	1368	1361	1362
15°	1360	1357	1365
20°	1353	1353	1362
25°	1333	1337	1357
30°	1318	1320	1360
35°	1300	1311	1370
40°	1283	1304	1392
45°	1254	1297	1433
50°	1220	1295	1488
55°	1173	1315	1550
60°	1110	1332	1617
65°	1036	1352	1676
70°	912	1349	1705
75°	773	1292	1293
80°	628	879	966
85°	480	481	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.0
10°-20°	279.0	8.7
20°-30°	425.2	13.2
30°-40°	520.2	16.1
40°-50°	559.8	17.4
50°-60°	542.2	16.8
60°-70°	459.3	14.3
70°-80°	277.7	8.6
80°-90°	61.0	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°	801.4	24.9
0°-40°	1321.6	41.0
0°-60°	2423.6	75.2
0°-90°	3221.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3221.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1021	1021	1028	1023	1016	97
15°	983	986	988	991	993	278
25°	908	913	923	931	936	419
35°	806	811	828	851	863	504
45°	676	688	718	763	791	521
55°	518	540	603	673	708	463
65°	343	380	473	548	583	338
75°	163	220	298	303	295	175
85°	40	48	50	48	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1035.8	1033.3	1025.8	1020.8	1015.8
5°	1020.8	1020.8	1028.3	1023.3	1015.8
7.5°	1013.3	1013.3	1013.3	1025.8	1013.3
10°	1005.7	1008.2	1005.7	1015.8	1005.7
12.5°	998.2	998.2	998.2	1000.7	1000.7
15°	983.2	985.7	988.2	990.7	993.2
17.5°	968.2	970.7	975.7	978.2	980.7
20°	953.2	955.7	963.2	963.2	968.2
22.5°	933.2	933.2	943.2	945.7	953.2
25°	908.2	913.2	923.2	930.7	935.7
27.5°	885.7	890.7	900.7	910.7	918.2
30°	860.6	865.6	875.7	890.7	900.7
32.5°	833.1	838.1	853.1	870.6	880.7
35°	805.6	810.6	828.1	850.6	863.1
37.5°	775.6	783.1	803.1	828.1	843.1
40°	745.6	753.1	775.6	803.1	825.6
42.5°	710.5	720.5	745.6	783.1	808.1
45°	675.5	688.0	718.0	763.1	790.6
47.5°	638.0	650.5	685.5	743.1	773.1
50°	600.4	615.5	658.0	720.5	753.1
52.5°	560.4	575.4	630.5	698.0	733.0
55°	517.9	540.4	602.9	673.0	708.0
57.5°	475.4	500.4	570.4	645.5	683.0
60°	430.3	460.3	540.4	615.5	653.0
62.5°	387.8	420.3	507.9	582.9	620.5
65°	342.8	380.3	472.9	547.9	582.9
67.5°	295.2	342.8	432.8	505.4	540.4
70°	247.7	302.7	392.8	460.3	492.9
72.5°	205.2	262.7	347.8	405.3	405.3
75°	162.6	220.2	297.7	302.7	295.2
77.5°	125.1	180.1	232.7	212.7	217.7
80°	92.6	137.6	147.6	155.1	160.1
82.5°	62.5	92.6	95.1	100.1	100.1
85°	40.0	47.5	50.0	47.5	45.0
87.5°	17.5	20.0	15.0	10.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)