

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-LD5-40-SQP-UNV-L835-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-LD5-40-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.4 lumens
Efficiency: N/A
Efficacy: 94.3 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

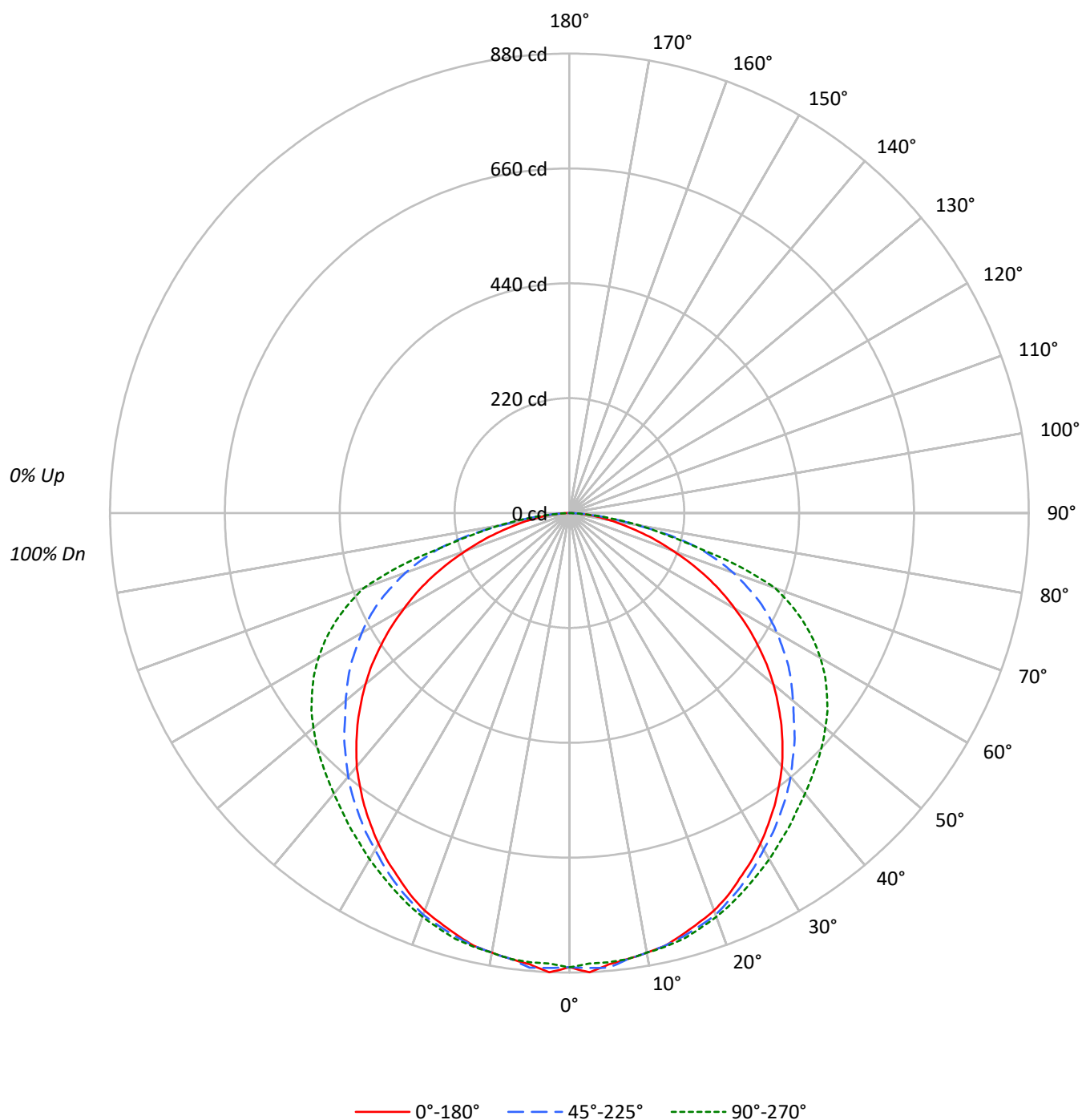
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102	
1	108	103	99	95		105	101	97	93		97	93	90		93	90	87		89	87	85	
2	98	89	82	76		95	87	81	75		84	78	73		80	76	71		77	73	70	
3	89	78	69	62		86	76	68	62		73	66	61		70	64	59		68	63	58	
4	81	68	59	52		79	67	58	52		64	57	51		62	56	50		60	54	50	
5	74	61	52	45		72	60	51	44		58	50	44		56	49	43		54	48	43	
6	68	55	45	39		66	54	45	39		52	44	38		50	43	38		48	42	37	
7	63	49	40	34		62	49	40	34		47	39	34		45	39	33		44	38	33	
8	59	45	36	30		57	44	36	30		43	35	30		42	35	30		40	34	29	
9	55	41	33	27		54	41	33	27		39	32	27		38	32	27		37	31	27	
10	51	38	30	24		50	37	30	24		36	29	24		35	29	24		35	28	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1170	1170	1170
5°	1169	1175	1161
10°	1163	1157	1158
15°	1156	1154	1161
20°	1150	1150	1157
25°	1133	1137	1154
30°	1120	1122	1156
35°	1105	1115	1164
40°	1090	1109	1183
45°	1066	1103	1218
50°	1037	1101	1265
55°	997	1118	1318
60°	944	1132	1374
65°	880	1149	1425
70°	775	1146	1449
75°	657	1098	1099
80°	534	748	822
85°	408	408	376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.0
10°-20°	237.2	8.7
20°-30°	361.4	13.2
30°-40°	442.2	16.1
40°-50°	475.8	17.4
50°-60°	460.9	16.8
60°-70°	390.4	14.3
70°-80°	236.0	8.6
80°-90°	51.9	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°	681.2	24.9
0°-40°	1123.4	41.0
0°-60°	2060.1	75.2
0°-90°	2738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	868	868	874	870	863	82
15°	836	838	840	842	844	236
25°	772	776	785	791	795	356
35°	685	689	704	723	734	428
45°	574	585	610	649	672	443
55°	440	459	512	572	602	393
65°	291	323	402	466	496	287
75°	138	187	253	257	251	149
85°	34	40	42	40	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.8	869.8	869.8	869.8	869.8
2.5°	880.4	878.3	871.9	867.7	863.4
5°	867.7	867.7	874.0	869.8	863.4
7.5°	861.3	861.3	861.3	871.9	861.3
10°	854.9	857.0	854.9	863.4	854.9
12.5°	848.5	848.5	848.5	850.6	850.6
15°	835.8	837.9	840.0	842.1	844.3
17.5°	823.0	825.1	829.4	831.5	833.6
20°	810.2	812.4	818.7	818.7	823.0
22.5°	793.2	793.2	801.7	803.9	810.2
25°	772.0	776.2	784.7	791.1	795.4
27.5°	752.8	757.1	765.6	774.1	780.5
30°	731.6	735.8	744.3	757.1	765.6
32.5°	708.2	712.4	725.2	740.1	748.6
35°	684.8	689.0	703.9	723.1	733.7
37.5°	659.3	665.6	682.6	703.9	716.7
40°	633.7	640.1	659.3	682.6	701.8
42.5°	604.0	612.5	633.7	665.6	686.9
45°	574.2	584.8	610.3	648.6	672.0
47.5°	542.3	552.9	582.7	631.6	657.1
50°	510.4	523.1	559.3	612.5	640.1
52.5°	476.4	489.1	535.9	593.3	623.1
55°	440.2	459.4	512.5	572.1	601.8
57.5°	404.1	425.3	484.9	548.7	580.6
60°	365.8	391.3	459.4	523.1	555.0
62.5°	329.6	357.3	431.7	495.5	527.4
65°	291.3	323.2	401.9	465.7	495.5
67.5°	250.9	291.3	367.9	429.6	459.4
70°	210.5	257.3	333.9	391.3	418.9
72.5°	174.4	223.3	295.6	344.5	344.5
75°	138.2	187.1	253.1	257.3	250.9
77.5°	106.3	153.1	197.8	180.8	185.0
80°	78.7	117.0	125.5	131.9	136.1
82.5°	53.2	78.7	80.8	85.1	85.1
85°	34.0	40.4	42.5	40.4	38.3
87.5°	14.9	17.0	12.8	8.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)