

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-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-LD5-40-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.2 lumens
Efficiency: N/A
Efficacy: 96.2 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

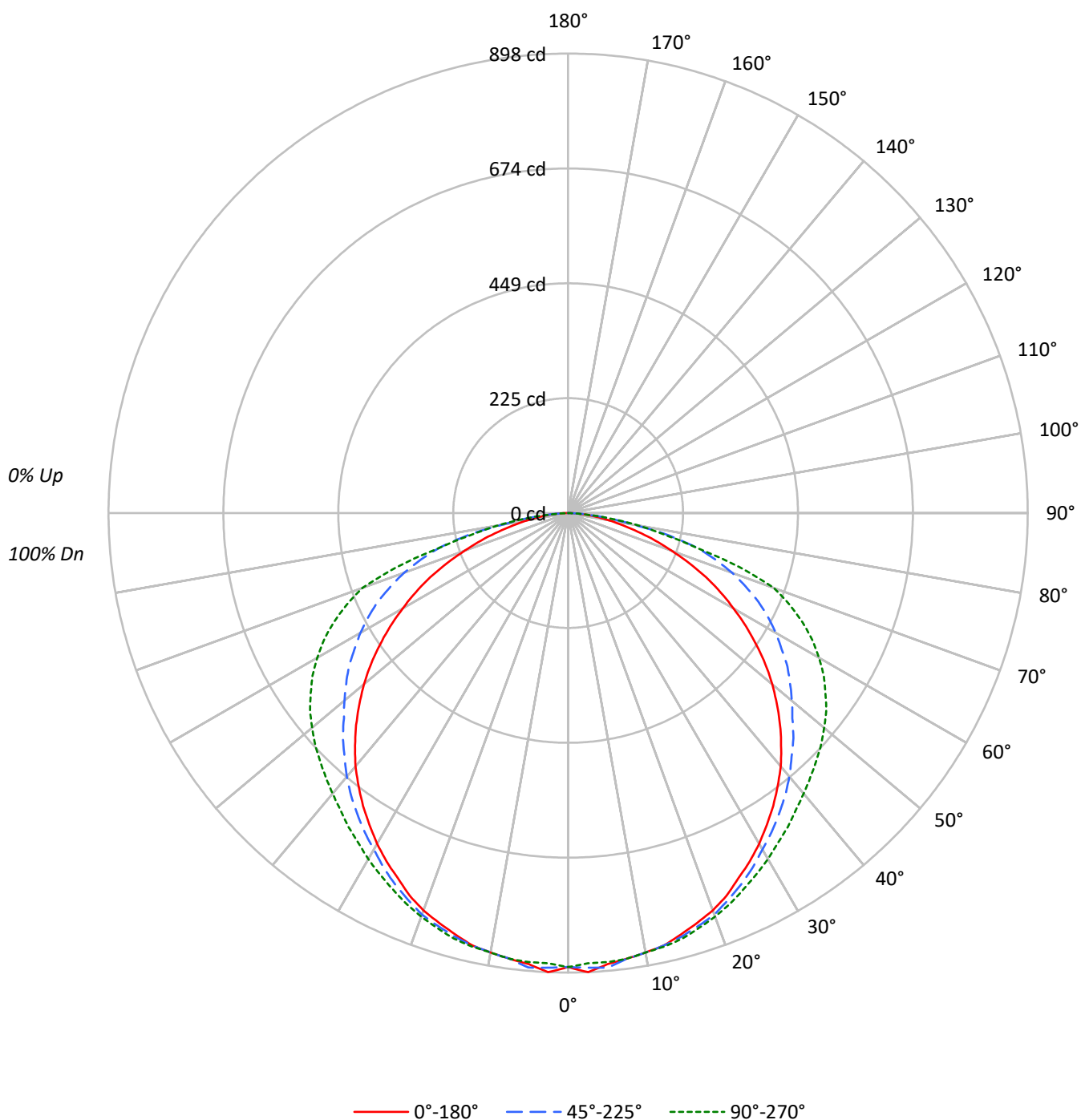
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1194	1194	1194
5°	1193	1199	1184
10°	1186	1180	1181
15°	1180	1177	1184
20°	1173	1173	1181
25°	1155	1160	1177
30°	1143	1144	1179
35°	1128	1137	1188
40°	1112	1131	1207
45°	1087	1125	1242
50°	1058	1123	1290
55°	1017	1140	1344
60°	962	1155	1402
65°	898	1172	1453
70°	790	1169	1478
75°	670	1120	1122
80°	545	762	838
85°	417	417	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	241.9	8.7
20°-30°	368.6	13.2
30°-40°	451.1	16.1
40°-50°	485.3	17.4
50°-60°	470.1	16.8
60°-70°	398.2	14.3
70°-80°	240.7	8.6
80°-90°	52.9	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°	694.8	24.9
0°-40°	1145.8	41.0
0°-60°	2101.3	75.2
0°-90°	2793.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	885	885	892	887	881	84
15°	852	855	857	859	861	241
25°	787	792	800	807	811	363
35°	698	703	718	738	748	437
45°	586	596	622	662	686	451
55°	449	468	523	584	614	401
65°	297	330	410	475	505	293
75°	141	191	258	262	256	152
85°	35	41	43	41	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	898.0	895.9	889.4	885.0	880.7
5°	885.0	885.0	891.5	887.2	880.7
7.5°	878.5	878.5	878.5	889.4	878.5
10°	872.0	874.2	872.0	880.7	872.0
12.5°	865.5	865.5	865.5	867.7	867.7
15°	852.5	854.6	856.8	859.0	861.2
17.5°	839.5	841.6	846.0	848.1	850.3
20°	826.4	828.6	835.1	835.1	839.5
22.5°	809.1	809.1	817.8	819.9	826.4
25°	787.4	791.7	800.4	806.9	811.3
27.5°	767.9	772.2	780.9	789.6	796.1
30°	746.2	750.5	759.2	772.2	780.9
32.5°	722.3	726.7	739.7	754.9	763.5
35°	698.5	702.8	718.0	737.5	748.4
37.5°	672.4	678.9	696.3	718.0	731.0
40°	646.4	652.9	672.4	696.3	715.8
42.5°	616.0	624.7	646.4	678.9	700.6
45°	585.7	596.5	622.5	661.6	685.5
47.5°	553.1	564.0	594.3	644.2	670.3
50°	520.6	533.6	570.5	624.7	652.9
52.5°	485.9	498.9	546.6	605.2	635.6
55°	449.0	468.5	522.8	583.5	613.9
57.5°	412.1	433.8	494.6	559.6	592.2
60°	373.1	399.1	468.5	533.6	566.1
62.5°	336.2	364.4	440.3	505.4	538.0
65°	297.2	329.7	410.0	475.0	505.4
67.5°	256.0	297.2	375.3	438.2	468.5
70°	214.7	262.5	340.6	399.1	427.3
72.5°	177.9	227.8	301.5	351.4	351.4
75°	141.0	190.9	258.1	262.5	256.0
77.5°	108.5	156.2	201.7	184.4	188.7
80°	80.3	119.3	128.0	134.5	138.8
82.5°	54.2	80.3	82.4	86.8	86.8
85°	34.7	41.2	43.4	41.2	39.0
87.5°	15.2	17.4	13.0	8.7	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)