

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

Light Source: -
Ballast/Driver: -

Summary

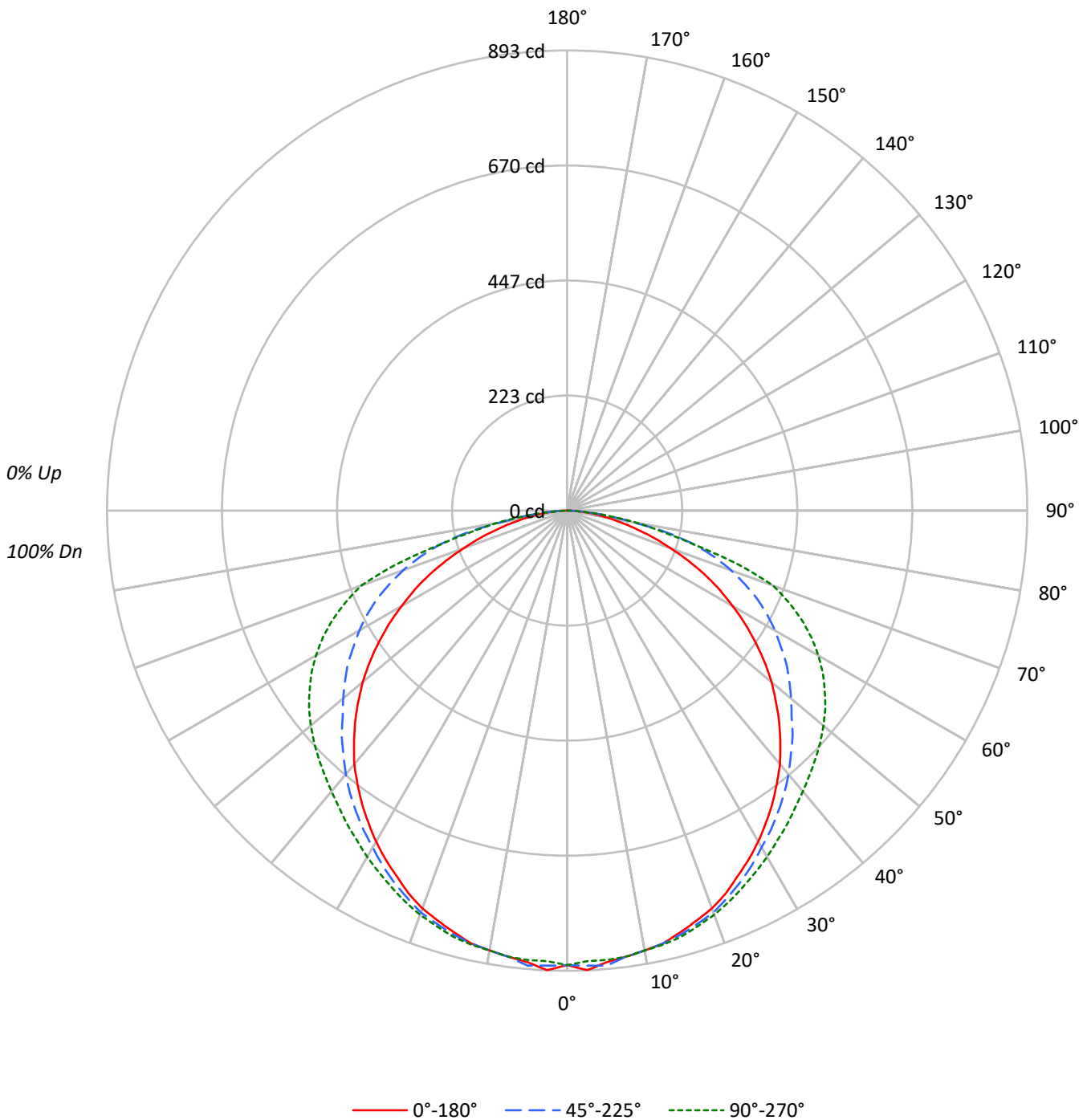
Lumens per Lamp: N/A
Luminaire Lumens: 2776.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (A_{in}): 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°	1187	1187	1187
5°	1186	1191	1177
10°	1179	1173	1174
15°	1173	1170	1177
20°	1166	1166	1173
25°	1149	1153	1170
30°	1136	1138	1172
35°	1121	1130	1181
40°	1105	1124	1199
45°	1081	1118	1235
50°	1052	1116	1282
55°	1011	1133	1336
60°	957	1148	1394
65°	893	1165	1445
70°	786	1162	1469
75°	666	1114	1115
80°	542	758	833
85°	414	414	381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.0
10°-20°	240.5	8.7
20°-30°	366.4	13.2
30°-40°	448.4	16.1
40°-50°	482.4	17.4
50°-60°	467.3	16.8
60°-70°	395.8	14.3
70°-80°	239.3	8.6
80°-90°	52.6	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°	690.6	24.9
0°-40°	1139.0	41.0
0°-60°	2088.7	75.2
0°-90°	2776.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	880	880	886	882	875	84
15°	847	850	852	854	856	239
25°	783	787	796	802	806	361
35°	694	699	714	733	744	434
45°	582	593	619	658	681	449
55°	446	466	520	580	610	399
65°	295	328	408	472	502	291
75°	140	190	257	261	254	151
85°	34	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°	881.9	881.9	881.9	881.9	881.9
2.5°	892.6	890.5	884.0	879.7	875.4
5°	879.7	879.7	886.2	881.9	875.4
7.5°	873.2	873.2	873.2	884.0	873.2
10°	866.8	868.9	866.8	875.4	866.8
12.5°	860.3	860.3	860.3	862.5	862.5
15°	847.4	849.5	851.7	853.8	856.0
17.5°	834.4	836.6	840.9	843.0	845.2
20°	821.5	823.6	830.1	830.1	834.4
22.5°	804.2	804.2	812.9	815.0	821.5
25°	782.7	787.0	795.6	802.1	806.4
27.5°	763.3	767.6	776.2	784.8	791.3
30°	741.7	746.0	754.6	767.6	776.2
32.5°	718.0	722.3	735.2	750.3	759.0
35°	694.3	698.6	713.7	733.1	743.9
37.5°	668.4	674.9	692.1	713.7	726.6
40°	642.5	649.0	668.4	692.1	711.5
42.5°	612.3	621.0	642.5	674.9	696.4
45°	582.2	592.9	618.8	657.6	681.3
47.5°	549.8	560.6	590.8	640.4	666.2
50°	517.5	530.4	567.1	621.0	649.0
52.5°	483.0	495.9	543.3	601.6	631.7
55°	446.3	465.7	519.6	580.0	610.2
57.5°	409.7	431.2	491.6	556.3	588.6
60°	370.9	396.7	465.7	530.4	562.7
62.5°	334.2	362.2	437.7	502.4	534.7
65°	295.4	327.7	407.5	472.2	502.4
67.5°	254.4	295.4	373.0	435.5	465.7
70°	213.5	260.9	338.5	396.7	424.8
72.5°	176.8	226.4	299.7	349.3	349.3
75°	140.1	189.7	256.6	260.9	254.4
77.5°	107.8	155.2	200.5	183.3	187.6
80°	79.8	118.6	127.2	133.7	138.0
82.5°	53.9	79.8	81.9	86.2	86.2
85°	34.5	41.0	43.1	41.0	38.8
87.5°	15.1	17.2	12.9	8.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)