

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-RDP-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-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.5 lumens
Efficiency: N/A
Efficacy: 91.7 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

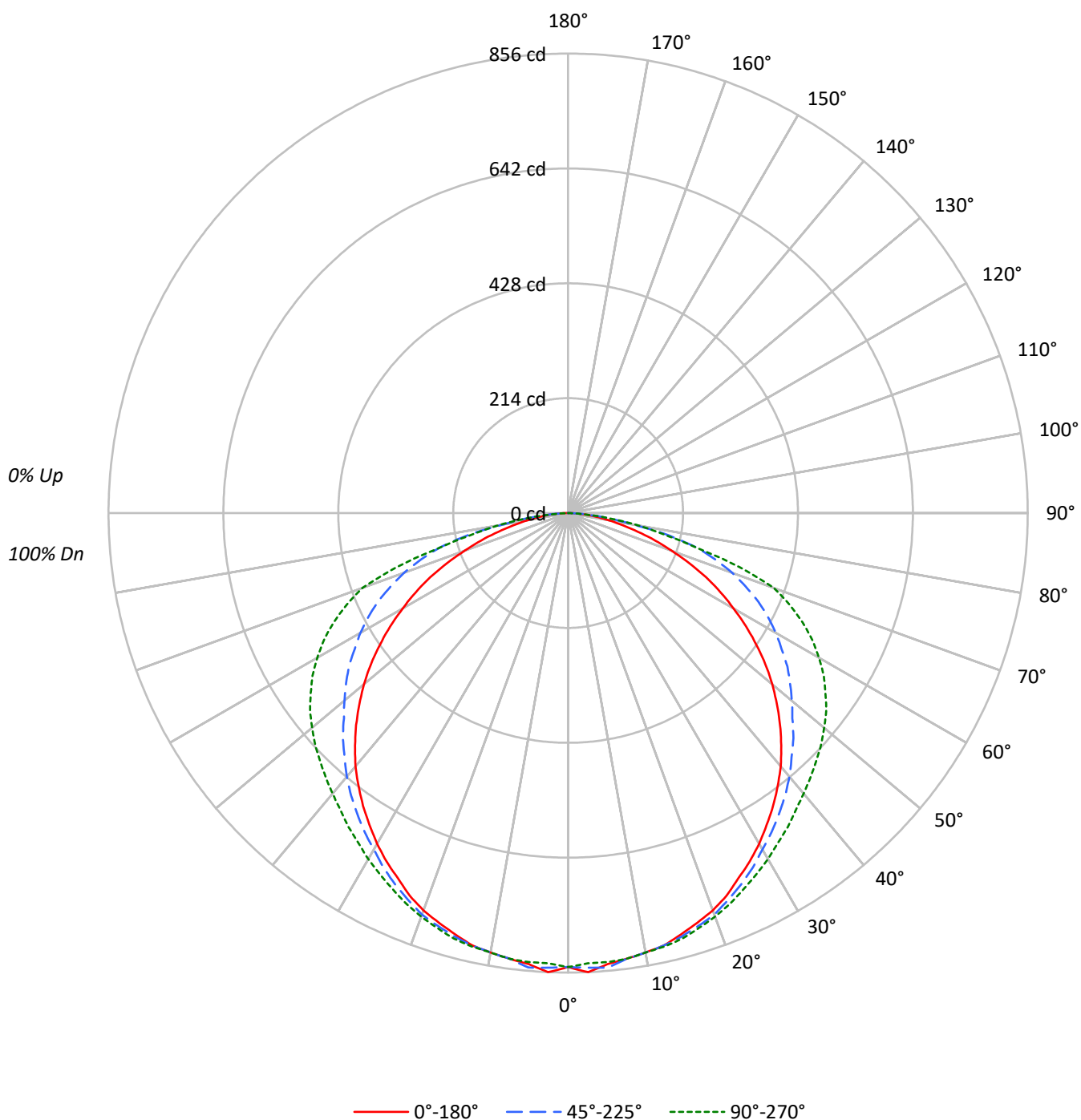
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1138	1138	1138
5°	1137	1142	1129
10°	1131	1125	1126
15°	1124	1122	1128
20°	1118	1118	1125
25°	1101	1105	1122
30°	1089	1091	1124
35°	1075	1084	1132
40°	1060	1078	1150
45°	1036	1072	1184
50°	1009	1071	1230
55°	969	1087	1281
60°	917	1101	1337
65°	856	1117	1385
70°	754	1115	1409
75°	639	1068	1069
80°	519	727	799
85°	397	398	365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	230.6	8.7
20°-30°	351.4	13.2
30°-40°	430.0	16.1
40°-50°	462.6	17.4
50°-60°	448.1	16.8
60°-70°	379.6	14.3
70°-80°	229.5	8.6
80°-90°	50.4	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°	662.3	24.9
0°-40°	1092.3	41.0
0°-60°	2003.0	75.2
0°-90°	2662.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	844	844	850	846	840	80
15°	813	815	817	819	821	229
25°	751	755	763	769	773	346
35°	666	670	684	703	713	416
45°	558	569	593	631	653	430
55°	428	447	498	556	585	382
65°	283	314	391	453	482	279
75°	134	182	246	250	244	144
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.7	845.7	845.7	845.7	845.7
2.5°	856.0	854.0	847.8	843.6	839.5
5°	843.6	843.6	849.8	845.7	839.5
7.5°	837.4	837.4	837.4	847.8	837.4
10°	831.2	833.3	831.2	839.5	831.2
12.5°	825.0	825.0	825.0	827.1	827.1
15°	812.6	814.7	816.7	818.8	820.9
17.5°	800.2	802.3	806.4	808.5	810.5
20°	787.8	789.9	796.1	796.1	800.2
22.5°	771.2	771.2	779.5	781.6	787.8
25°	750.6	754.7	763.0	769.2	773.3
27.5°	732.0	736.1	744.4	752.6	758.8
30°	711.3	715.4	723.7	736.1	744.4
32.5°	688.5	692.7	705.1	719.6	727.8
35°	665.8	669.9	684.4	703.0	713.4
37.5°	641.0	647.2	663.7	684.4	696.8
40°	616.2	622.4	641.0	663.7	682.3
42.5°	587.2	595.5	616.2	647.2	667.9
45°	558.3	568.6	593.4	630.6	653.4
47.5°	527.3	537.6	566.5	614.1	638.9
50°	496.2	508.7	543.8	595.5	622.4
52.5°	463.2	475.6	521.1	576.9	605.8
55°	428.0	446.6	498.3	556.2	585.2
57.5°	392.9	413.5	471.4	533.5	564.5
60°	355.6	380.5	446.6	508.7	539.7
62.5°	320.5	347.4	419.7	481.8	512.8
65°	283.3	314.3	390.8	452.8	481.8
67.5°	244.0	283.3	357.7	417.7	446.6
70°	204.7	250.2	324.6	380.5	407.3
72.5°	169.6	217.1	287.4	335.0	335.0
75°	134.4	182.0	246.1	250.2	244.0
77.5°	103.4	148.9	192.3	175.8	179.9
80°	76.5	113.7	122.0	128.2	132.3
82.5°	51.7	76.5	78.6	82.7	82.7
85°	33.1	39.3	41.4	39.3	37.2
87.5°	14.5	16.5	12.4	8.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)