

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-LD5-50-RDP-UNV-L830-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-LD5-50-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937.3 lumens
Efficiency: N/A
Efficacy: 72.2 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

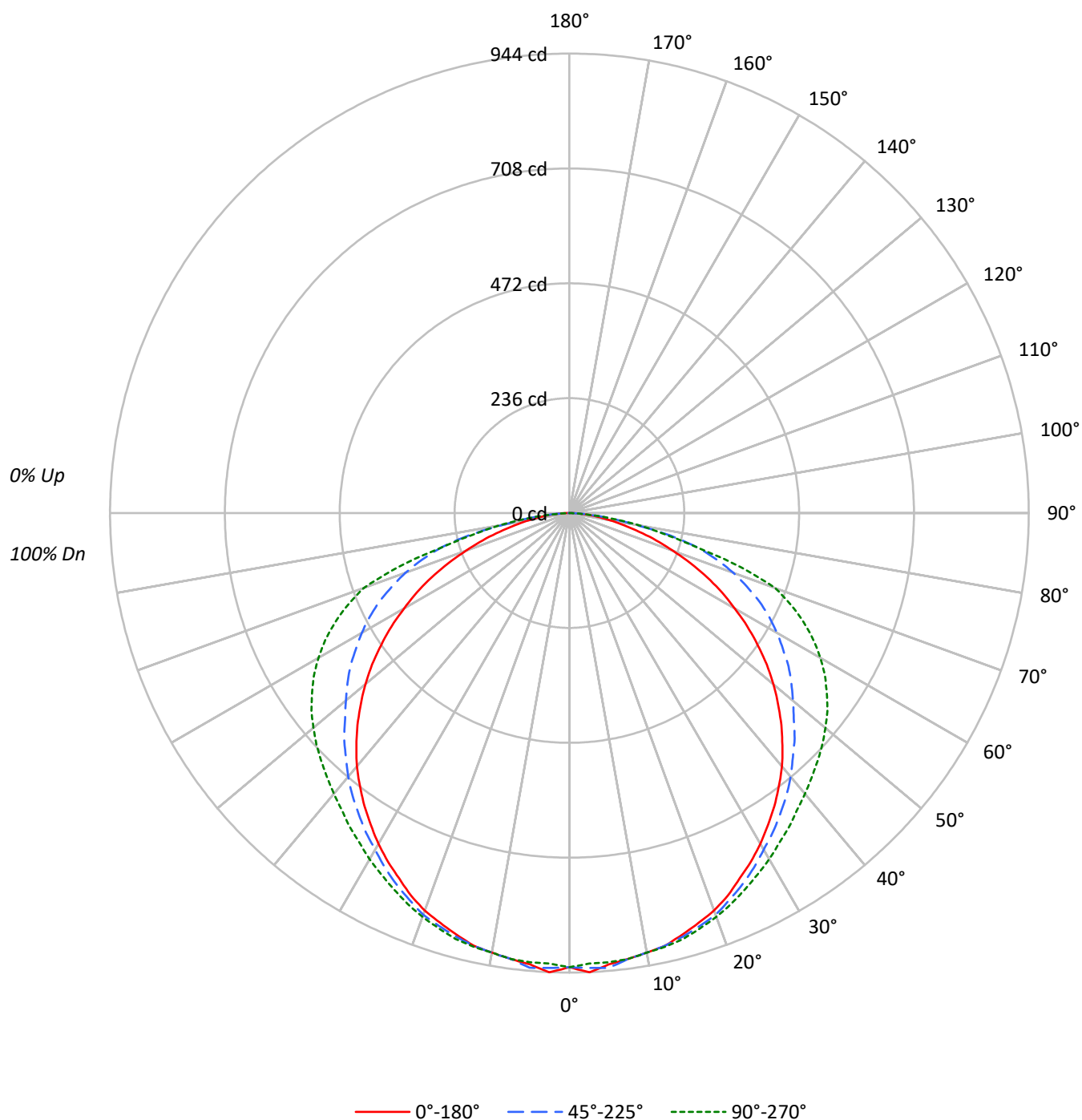
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	1255	1255	1255
5°	1254	1261	1246
10°	1247	1241	1242
15°	1240	1238	1245
20°	1233	1234	1241
25°	1215	1219	1238
30°	1202	1204	1240
35°	1186	1196	1249
40°	1169	1189	1269
45°	1143	1183	1306
50°	1113	1181	1357
55°	1069	1199	1413
60°	1012	1215	1475
65°	945	1232	1528
70°	831	1230	1554
75°	705	1178	1179
80°	573	802	881
85°	438	438	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.0
10°-20°	254.4	8.7
20°-30°	387.7	13.2
30°-40°	474.4	16.1
40°-50°	510.4	17.4
50°-60°	494.4	16.8
60°-70°	418.8	14.3
70°-80°	253.2	8.6
80°-90°	55.6	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°	730.7	24.9
0°-40°	1205.0	41.0
0°-60°	2209.8	75.2
0°-90°	2937.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	931	931	938	933	926	88
15°	896	899	901	903	906	253
25°	828	833	842	848	853	382
35°	734	739	755	776	787	459
45°	616	627	655	696	721	475
55°	472	493	550	614	646	422
65°	313	347	431	500	532	308
75°	148	201	271	276	269	159
85°	36	43	46	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.0	933.0	933.0	933.0	933.0
2.5°	944.4	942.1	935.3	930.7	926.2
5°	930.7	930.7	937.6	933.0	926.2
7.5°	923.9	923.9	923.9	935.3	923.9
10°	917.0	919.3	917.0	926.2	917.0
12.5°	910.2	910.2	910.2	912.5	912.5
15°	896.5	898.8	901.1	903.4	905.6
17.5°	882.8	885.1	889.7	892.0	894.2
20°	869.1	871.3	878.3	878.3	882.8
22.5°	850.8	850.8	859.9	862.2	869.1
25°	828.0	832.6	841.7	848.5	853.1
27.5°	807.5	812.1	821.2	830.3	837.1
30°	784.7	789.3	798.4	812.1	821.2
32.5°	759.6	764.2	777.9	793.8	802.9
35°	734.5	739.1	755.1	775.6	787.0
37.5°	707.2	714.0	732.3	755.1	768.7
40°	679.7	686.7	707.2	732.3	752.8
42.5°	647.8	656.9	679.7	714.0	736.8
45°	615.9	627.3	654.6	695.8	720.9
47.5°	581.7	593.1	625.0	677.4	704.9
50°	547.5	561.2	599.9	656.9	686.7
52.5°	511.0	524.7	574.8	636.4	668.3
55°	472.2	492.8	549.8	613.6	645.5
57.5°	433.4	456.2	520.1	588.5	622.7
60°	392.3	419.7	492.8	561.2	595.4
62.5°	353.6	383.2	463.0	531.5	565.7
65°	312.6	346.8	431.1	499.6	531.5
67.5°	269.1	312.6	394.6	460.8	492.8
70°	225.8	276.0	358.2	419.7	449.4
72.5°	187.1	239.5	317.1	369.5	369.5
75°	148.3	200.7	271.4	276.0	269.1
77.5°	114.1	164.3	212.1	193.9	198.5
80°	84.4	125.5	134.6	141.5	146.0
82.5°	57.0	84.4	86.6	91.2	91.2
85°	36.5	43.3	45.6	43.3	41.0
87.5°	16.0	18.2	13.7	9.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)