

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-SQP-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-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

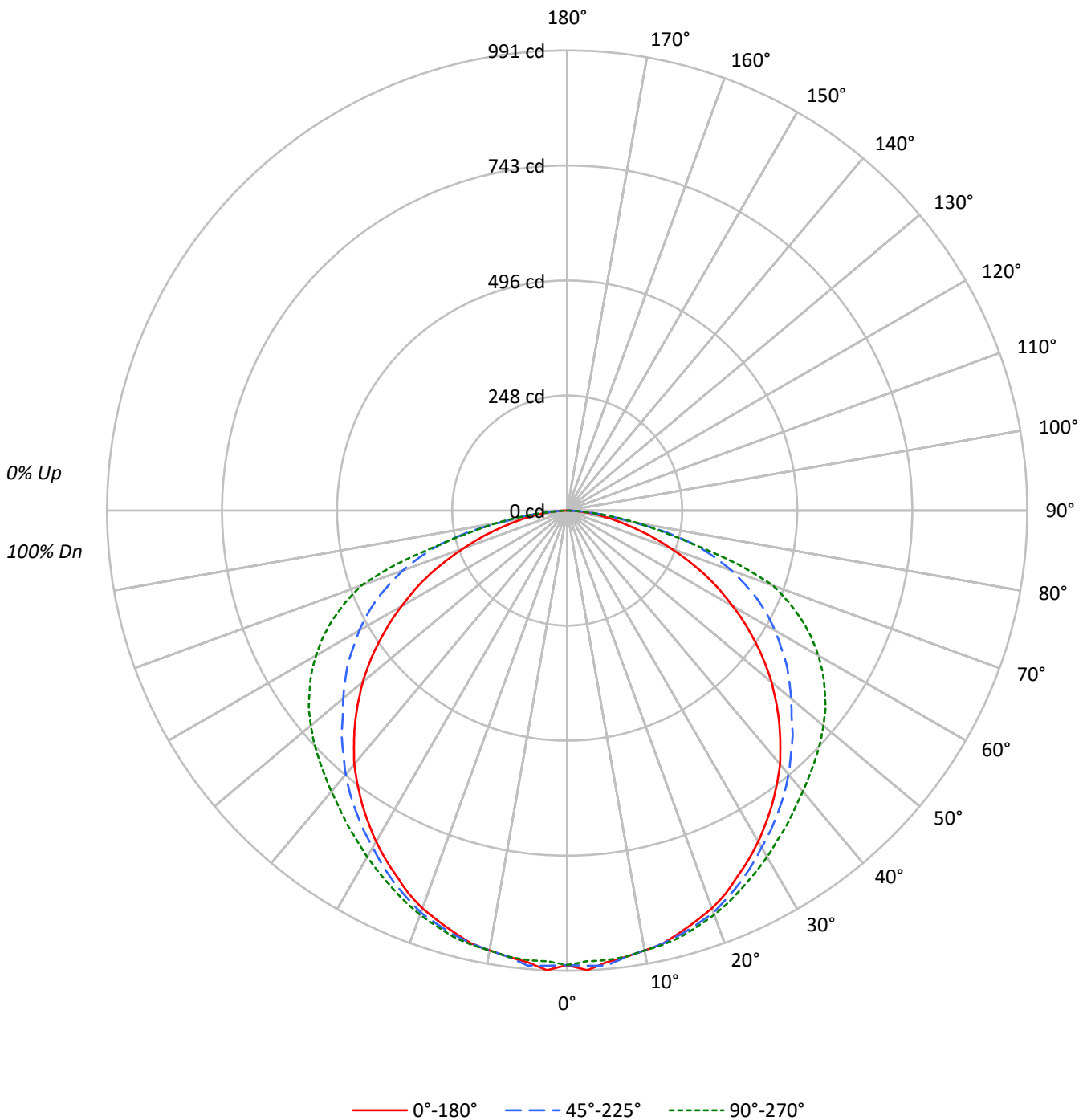
Lumens per Lamp: N/A
Luminaire Lumens: 3081.5 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 40.68
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	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					100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1317	1317	1317
5°	1316	1322	1307
10°	1309	1302	1303
15°	1301	1298	1306
20°	1294	1294	1302
25°	1275	1279	1298
30°	1261	1263	1301
35°	1244	1254	1310
40°	1227	1248	1331
45°	1199	1241	1370
50°	1168	1239	1423
55°	1122	1258	1483
60°	1062	1274	1547
65°	991	1293	1603
70°	872	1290	1630
75°	739	1236	1237
80°	601	841	924
85°	460	460	422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.0
10°-20°	266.9	8.7
20°-30°	406.7	13.2
30°-40°	497.6	16.1
40°-50°	535.4	17.4
50°-60°	518.7	16.8
60°-70°	439.3	14.3
70°-80°	265.6	8.6
80°-90°	58.4	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°	766.5	24.9
0°-40°	1264.1	41.0
0°-60°	2318.2	75.2
0°-90°	3081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	976	976	984	979	972	93
15°	940	943	945	948	950	266
25°	869	873	883	890	895	401
35°	770	775	792	814	826	482
45°	646	658	687	730	756	498
55°	495	517	577	644	677	442
65°	328	364	452	524	558	323
75°	156	211	285	290	282	167
85°	38	46	48	46	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.8	978.8	978.8	978.8	978.8
2.5°	990.8	988.3	981.2	976.4	971.6
5°	976.4	976.4	983.5	978.8	971.6
7.5°	969.2	969.2	969.2	981.2	969.2
10°	962.0	964.4	962.0	971.6	962.0
12.5°	954.8	954.8	954.8	957.2	957.2
15°	940.5	942.9	945.2	947.6	950.0
17.5°	926.2	928.5	933.3	935.7	938.0
20°	911.7	914.2	921.3	921.3	926.2
22.5°	892.6	892.6	902.2	904.6	911.7
25°	868.7	873.4	883.0	890.2	895.0
27.5°	847.1	852.0	861.5	871.1	878.3
30°	823.2	828.0	837.6	852.0	861.5
32.5°	796.9	801.7	816.0	832.8	842.4
35°	770.5	775.4	792.1	813.7	825.6
37.5°	741.9	749.0	768.2	792.1	806.5
40°	713.2	720.3	741.9	768.2	789.7
42.5°	679.6	689.2	713.2	749.0	772.9
45°	646.1	658.1	686.8	729.9	756.2
47.5°	610.2	622.2	655.7	710.7	739.5
50°	574.4	588.7	629.4	689.2	720.3
52.5°	536.1	550.4	603.1	667.7	701.2
55°	495.3	516.9	576.7	643.7	677.3
57.5°	454.7	478.6	545.6	617.4	653.3
60°	411.6	440.3	516.9	588.7	624.6
62.5°	370.9	402.0	485.8	557.6	593.5
65°	327.8	363.8	452.3	524.1	557.6
67.5°	282.3	327.8	414.0	483.4	516.9
70°	236.9	289.6	375.7	440.3	471.4
72.5°	196.3	251.3	332.6	387.7	387.7
75°	155.5	210.6	284.8	289.6	282.3
77.5°	119.7	172.3	222.6	203.4	208.2
80°	88.5	131.6	141.2	148.4	153.1
82.5°	59.8	88.5	90.9	95.8	95.8
85°	38.3	45.5	47.9	45.5	43.0
87.5°	16.7	19.2	14.3	9.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)