

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-LD5-50SE-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-LD5-50SE-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.0 lumens
Efficiency: N/A
Efficacy: 67.5 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

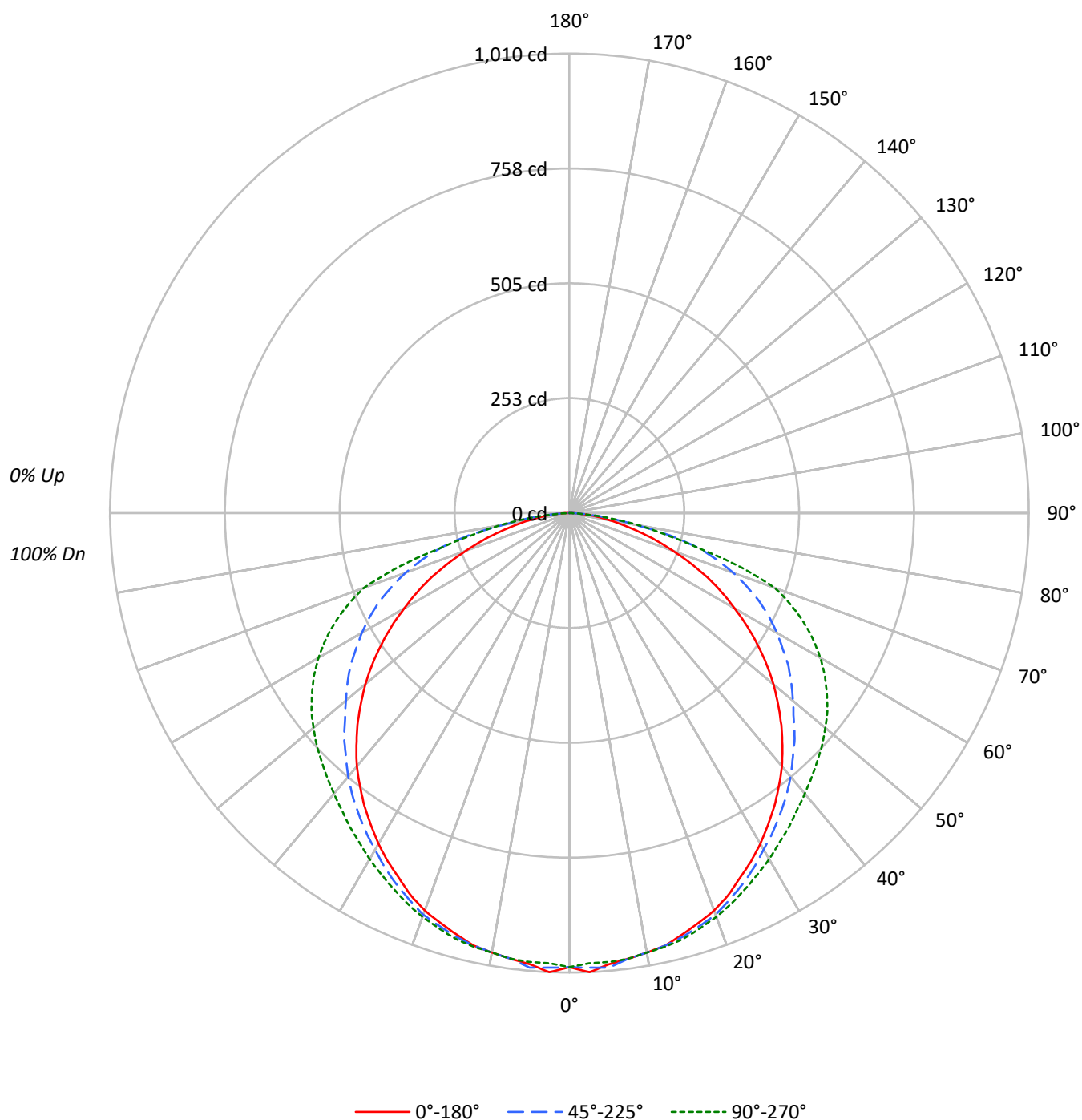
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1343	1343	1343
5°	1342	1348	1332
10°	1334	1328	1328
15°	1327	1324	1332
20°	1319	1320	1328
25°	1300	1304	1324
30°	1286	1287	1327
35°	1268	1279	1336
40°	1251	1272	1357
45°	1223	1265	1397
50°	1190	1263	1451
55°	1144	1282	1512
60°	1083	1299	1577
65°	1010	1318	1635
70°	889	1315	1663
75°	754	1260	1261
80°	612	857	943
85°	468	469	431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	272.1	8.7
20°-30°	414.7	13.2
30°-40°	507.4	16.1
40°-50°	545.9	17.4
50°-60°	528.8	16.8
60°-70°	448.0	14.3
70°-80°	270.8	8.6
80°-90°	59.5	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°	781.6	24.9
0°-40°	1289.0	41.0
0°-60°	2363.7	75.2
0°-90°	3142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	996	996	1003	998	991	95
15°	959	961	964	966	969	271
25°	886	891	900	908	913	409
35°	786	791	808	830	842	491
45°	659	671	700	744	771	508
55°	505	527	588	656	691	451
65°	334	371	461	534	569	329
75°	159	215	290	295	288	170
85°	39	46	49	46	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.0	998.0	998.0	998.0	998.0
2.5°	1010.2	1007.8	1000.4	995.5	990.7
5°	995.5	995.5	1002.9	998.0	990.7
7.5°	988.2	988.2	988.2	1000.4	988.2
10°	980.9	983.3	980.9	990.7	980.9
12.5°	973.6	973.6	973.6	976.0	976.0
15°	958.9	961.4	963.9	966.2	968.7
17.5°	944.3	946.8	951.6	954.1	956.5
20°	929.7	932.1	939.5	939.5	944.3
22.5°	910.1	910.1	919.9	922.4	929.7
25°	885.8	890.6	900.4	907.7	912.6
27.5°	863.7	868.7	878.5	888.2	895.5
30°	839.4	844.3	854.0	868.7	878.5
32.5°	812.5	817.4	832.1	849.1	858.9
35°	785.7	790.6	807.7	829.6	841.8
37.5°	756.4	763.7	783.3	807.7	822.3
40°	727.1	734.4	756.4	783.3	805.2
42.5°	693.0	702.7	727.1	763.7	788.1
45°	658.8	671.0	700.3	744.2	771.0
47.5°	622.2	634.4	668.6	724.7	754.0
50°	585.6	600.2	641.7	702.7	734.4
52.5°	546.5	561.3	614.9	680.8	715.0
55°	505.1	527.1	588.0	656.4	690.6
57.5°	463.6	488.0	556.3	629.6	666.1
60°	419.7	449.0	527.1	600.2	636.9
62.5°	378.2	409.9	495.3	568.6	605.2
65°	334.3	370.9	461.1	534.4	568.6
67.5°	287.9	334.3	422.1	492.9	527.1
70°	241.6	295.3	383.1	449.0	480.7
72.5°	200.1	256.2	339.2	395.3	395.3
75°	158.6	214.7	290.4	295.3	287.9
77.5°	122.0	175.7	227.0	207.4	212.3
80°	90.2	134.2	143.9	151.2	156.2
82.5°	61.0	90.2	92.7	97.6	97.6
85°	39.0	46.4	48.8	46.4	43.9
87.5°	17.1	19.5	14.6	9.8	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)