

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-LD5-55SE-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-LD5-55SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3263.1 lumens
Efficiency: N/A
Efficacy: 59.7 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

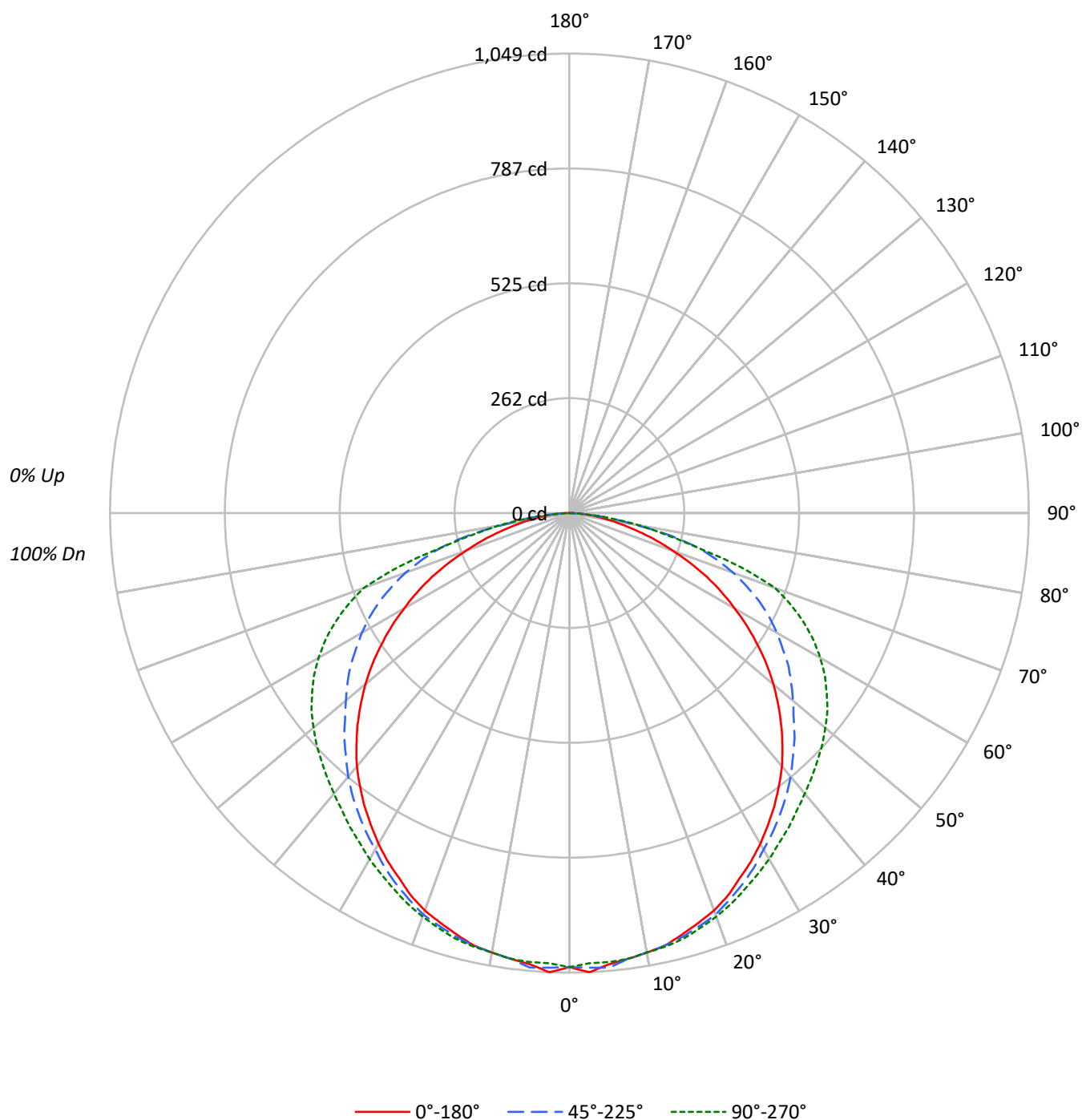
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1394	1394	1394
5°	1393	1400	1383
10°	1386	1379	1380
15°	1378	1375	1383
20°	1370	1370	1379
25°	1350	1355	1375
30°	1335	1337	1378
35°	1317	1328	1387
40°	1299	1321	1410
45°	1270	1314	1451
50°	1236	1312	1507
55°	1188	1332	1570
60°	1124	1349	1638
65°	1049	1369	1698
70°	924	1366	1727
75°	783	1308	1310
80°	637	891	979
85°	487	486	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.0
10°-20°	282.6	8.7
20°-30°	430.7	13.2
30°-40°	526.9	16.1
40°-50°	567.0	17.4
50°-60°	549.2	16.8
60°-70°	465.2	14.3
70°-80°	281.2	8.6
80°-90°	61.8	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°	811.7	24.9
0°-40°	1338.6	41.0
0°-60°	2454.8	75.2
0°-90°	3263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1034	1034	1042	1036	1029	98
15°	996	998	1001	1004	1006	281
25°	920	925	935	943	948	425
35°	816	821	839	862	874	510
45°	684	697	727	773	801	527
55°	524	547	611	682	717	469
65°	347	385	479	555	590	342
75°	165	223	302	307	299	177
85°	41	48	51	48	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1049.1	1046.5	1038.9	1033.9	1028.8
5°	1033.9	1033.9	1041.5	1036.4	1028.8
7.5°	1026.3	1026.3	1026.3	1038.9	1026.3
10°	1018.7	1021.2	1018.7	1028.8	1018.7
12.5°	1011.1	1011.1	1011.1	1013.6	1013.6
15°	995.9	998.4	1000.9	1003.5	1006.0
17.5°	980.7	983.2	988.3	990.8	993.3
20°	965.5	968.0	975.6	975.6	980.7
22.5°	945.2	945.2	955.3	957.9	965.5
25°	919.9	924.9	935.1	942.7	947.7
27.5°	897.1	902.1	912.3	922.4	930.0
30°	871.7	876.8	886.9	902.1	912.3
32.5°	843.8	848.9	864.1	881.8	892.0
35°	816.0	821.0	838.8	861.6	874.2
37.5°	785.6	793.2	813.4	838.8	854.0
40°	755.2	762.8	785.6	813.4	836.2
42.5°	719.6	729.8	755.2	793.2	818.5
45°	684.2	696.8	727.2	772.9	800.8
47.5°	646.2	658.8	694.4	752.6	783.0
50°	608.2	623.4	666.4	729.8	762.8
52.5°	567.6	582.8	638.6	707.0	742.4
55°	524.5	547.4	610.7	681.6	717.2
57.5°	481.5	506.8	577.8	653.8	691.8
60°	435.9	466.3	547.4	623.4	661.4
62.5°	392.7	425.7	514.4	590.4	628.4
65°	347.1	385.1	478.9	555.0	590.4
67.5°	299.1	347.1	438.4	511.9	547.4
70°	250.9	306.7	397.9	466.3	499.2
72.5°	207.8	266.1	352.3	410.5	410.5
75°	164.7	223.0	301.5	306.7	299.1
77.5°	126.7	182.5	235.7	215.4	220.5
80°	93.8	139.4	149.5	157.1	162.2
82.5°	63.4	93.8	96.3	101.4	101.4
85°	40.6	48.2	50.6	48.2	45.6
87.5°	17.8	20.2	15.2	10.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)