

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-LD5-60SE-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-LD5-60SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3510.3 lumens
Efficiency: N/A
Efficacy: 58.5 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

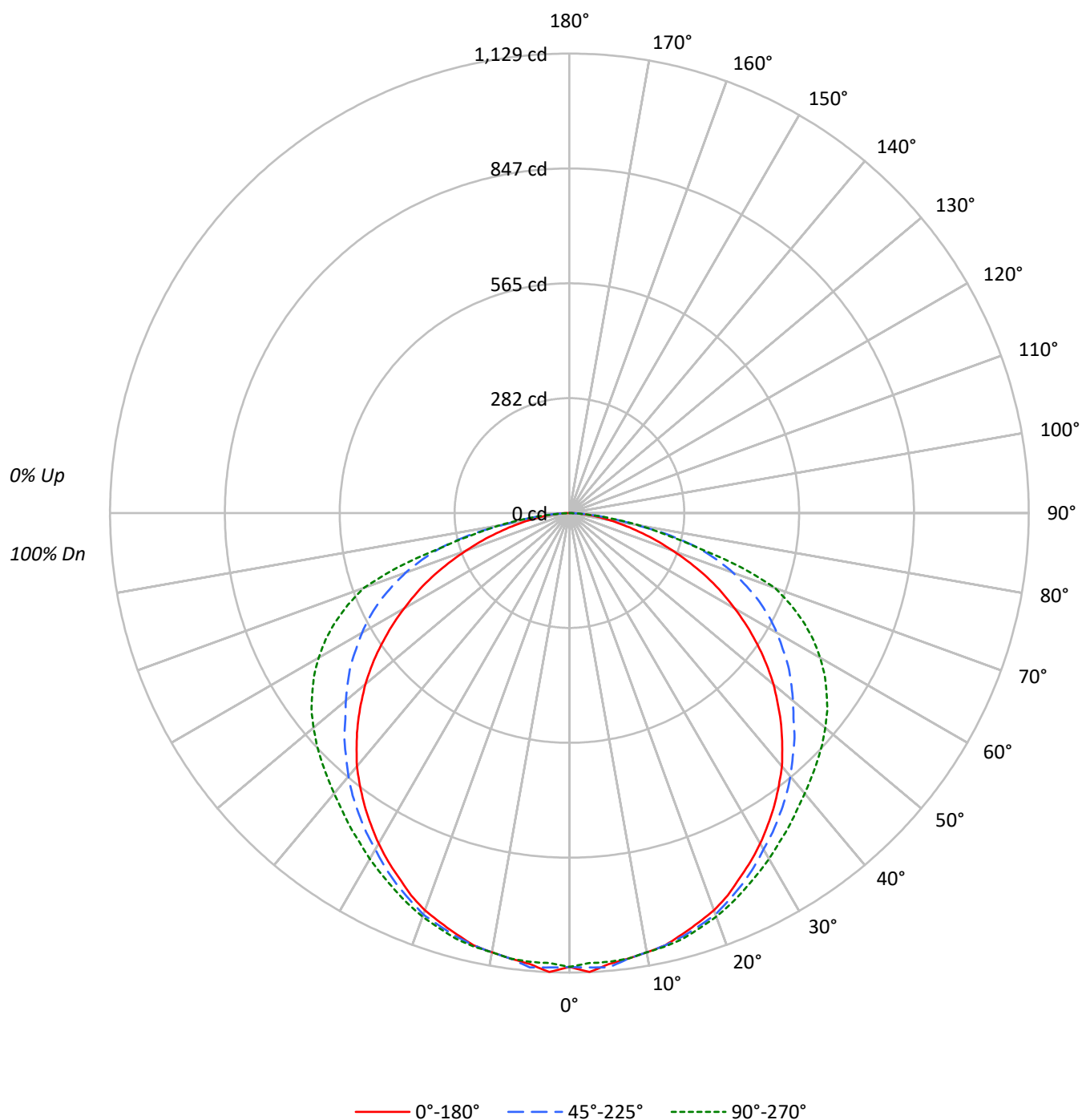
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
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°	1500	1500	1500
5°	1499	1506	1488
10°	1491	1483	1484
15°	1482	1479	1488
20°	1474	1474	1484
25°	1452	1457	1479
30°	1436	1438	1482
35°	1417	1429	1493
40°	1397	1421	1516
45°	1366	1414	1561
50°	1330	1412	1621
55°	1278	1433	1689
60°	1209	1451	1762
65°	1128	1473	1826
70°	994	1470	1857
75°	843	1408	1409
80°	685	958	1053
85°	523	524	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.0
10°-20°	304.0	8.7
20°-30°	463.3	13.2
30°-40°	566.9	16.1
40°-50°	609.9	17.4
50°-60°	590.8	16.8
60°-70°	500.5	14.3
70°-80°	302.5	8.6
80°-90°	66.5	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°	873.2	24.9
0°-40°	1440.0	41.0
0°-60°	2640.8	75.2
0°-90°	3510.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1112	1112	1120	1115	1107	106
15°	1071	1074	1077	1080	1082	303
25°	990	995	1006	1014	1020	457
35°	878	883	902	927	940	549
45°	736	750	782	831	862	567
55°	564	589	657	733	772	504
65°	373	414	515	597	635	368
75°	177	240	324	330	322	190
85°	44	52	54	52	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.0	1115.0	1115.0	1115.0	1115.0
2.5°	1128.6	1125.8	1117.7	1112.3	1106.8
5°	1112.3	1112.3	1120.4	1115.0	1106.8
7.5°	1104.1	1104.1	1104.1	1117.7	1104.1
10°	1095.9	1098.6	1095.9	1106.8	1095.9
12.5°	1087.8	1087.8	1087.8	1090.4	1090.4
15°	1071.3	1074.1	1076.8	1079.5	1082.2
17.5°	1055.0	1057.7	1063.1	1065.9	1068.7
20°	1038.6	1041.4	1049.6	1049.6	1055.0
22.5°	1016.8	1016.8	1027.7	1030.5	1038.6
25°	989.6	995.0	1006.0	1014.1	1019.5
27.5°	965.0	970.5	981.4	992.3	1000.4
30°	937.7	943.3	954.1	970.5	981.4
32.5°	907.8	913.2	929.6	948.7	959.6
35°	877.8	883.2	902.3	926.9	940.5
37.5°	845.1	853.3	875.0	902.3	918.6
40°	812.3	820.5	845.1	875.0	899.6
42.5°	774.2	785.1	812.3	853.3	880.6
45°	736.1	749.6	782.4	831.4	861.5
47.5°	695.1	708.8	747.0	809.7	842.4
50°	654.3	670.6	717.0	785.1	820.5
52.5°	610.7	627.0	686.9	760.6	798.8
55°	564.3	588.8	657.0	733.3	771.5
57.5°	517.9	545.2	621.6	703.3	744.2
60°	468.9	501.6	588.8	670.6	711.6
62.5°	422.6	458.0	553.4	635.2	676.1
65°	373.4	414.4	515.2	597.0	635.2
67.5°	321.7	373.4	471.6	550.7	588.8
70°	269.9	329.8	428.0	501.6	537.0
72.5°	223.5	286.2	379.0	441.7	441.7
75°	177.2	239.9	324.4	329.8	321.7
77.5°	136.3	196.3	253.6	231.7	237.2
80°	100.9	149.9	160.8	169.0	174.5
82.5°	68.1	100.9	103.6	109.1	109.1
85°	43.6	51.8	54.5	51.8	49.1
87.5°	19.1	21.8	16.3	10.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)