

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

Light Source: -
Ballast/Driver: -

Summary

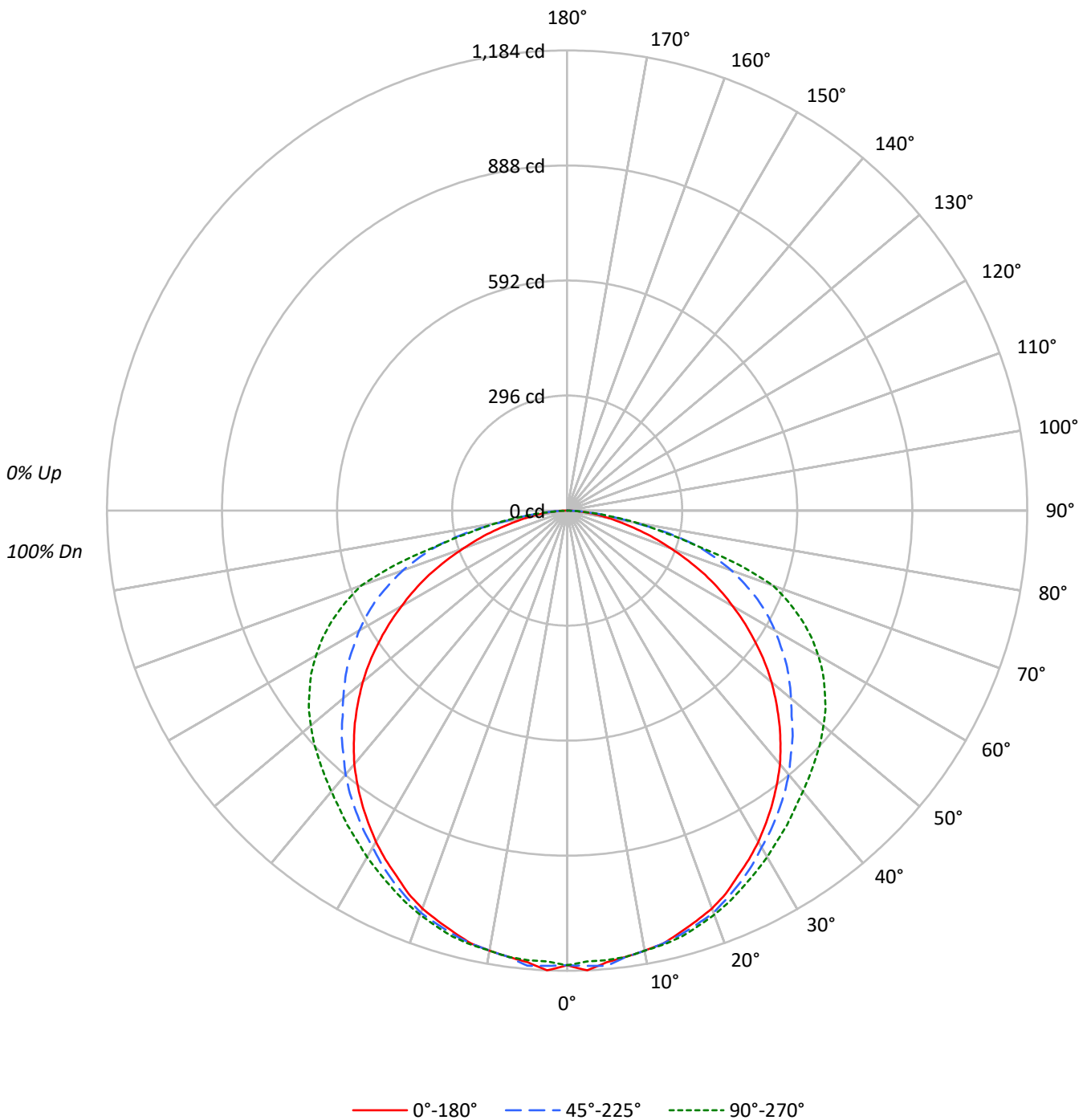
Lumens per Lamp: N/A
Luminaire Lumens: 3682.6 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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					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°	1574	1574	1574
5°	1572	1580	1561
10°	1564	1556	1557
15°	1555	1551	1561
20°	1546	1547	1556
25°	1524	1529	1552
30°	1507	1509	1555
35°	1486	1499	1566
40°	1466	1491	1591
45°	1434	1483	1638
50°	1395	1481	1701
55°	1341	1503	1772
60°	1269	1522	1848
65°	1184	1545	1916
70°	1042	1542	1949
75°	884	1477	1478
80°	718	1005	1105
85°	550	550	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.0
10°-20°	318.9	8.7
20°-30°	486.0	13.2
30°-40°	594.7	16.1
40°-50°	639.9	17.4
50°-60°	619.8	16.8
60°-70°	525.0	14.3
70°-80°	317.4	8.6
80°-90°	69.7	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°	916.0	24.9
0°-40°	1510.7	41.0
0°-60°	2770.4	75.2
0°-90°	3682.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1167	1167	1175	1170	1161	111
15°	1124	1127	1130	1132	1135	317
25°	1038	1044	1055	1064	1070	479
35°	921	927	947	972	987	576
45°	772	786	821	872	904	595
55°	592	618	689	769	809	529
65°	392	435	541	626	666	386
75°	186	252	340	346	337	200
85°	46	54	57	54	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.6	1169.6	1169.6	1169.6	1169.6
2.5°	1184.0	1181.1	1172.6	1166.8	1161.1
5°	1166.8	1166.8	1175.4	1169.6	1161.1
7.5°	1158.2	1158.2	1158.2	1172.6	1158.2
10°	1149.7	1152.5	1149.7	1161.1	1149.7
12.5°	1141.0	1141.0	1141.0	1144.0	1144.0
15°	1123.9	1126.8	1129.6	1132.5	1135.3
17.5°	1106.8	1109.6	1115.3	1118.2	1121.1
20°	1089.6	1092.5	1101.0	1101.0	1106.8
22.5°	1066.8	1066.8	1078.2	1081.0	1089.6
25°	1038.2	1043.9	1055.3	1063.9	1069.6
27.5°	1012.4	1018.1	1029.5	1041.0	1049.6
30°	983.8	989.5	1000.9	1018.1	1029.5
32.5°	952.4	958.1	975.2	995.2	1006.7
35°	920.8	926.6	946.6	972.3	986.7
37.5°	886.5	895.1	918.0	946.6	963.8
40°	852.2	860.8	886.5	918.0	943.7
42.5°	812.2	823.6	852.2	895.1	923.8
45°	772.2	786.5	820.8	872.3	903.7
47.5°	729.2	743.6	783.6	849.4	883.7
50°	686.4	703.6	752.1	823.6	860.8
52.5°	640.6	657.8	720.7	797.9	837.9
55°	591.9	617.7	689.2	769.3	809.3
57.5°	543.4	572.0	652.1	737.9	780.7
60°	491.9	526.2	617.7	703.6	746.4
62.5°	443.3	480.4	580.5	666.3	709.3
65°	391.8	434.7	540.6	626.3	666.3
67.5°	337.4	391.8	494.8	577.7	617.7
70°	283.1	346.1	449.0	526.2	563.4
72.5°	234.6	300.3	397.5	463.3	463.3
75°	185.9	251.7	340.3	346.1	337.4
77.5°	143.0	205.9	266.0	243.1	248.8
80°	105.8	157.3	168.7	177.3	183.1
82.5°	71.5	105.8	108.7	114.4	114.4
85°	45.8	54.3	57.2	54.3	51.5
87.5°	20.0	22.9	17.2	11.4	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)