

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-LD5-70-SQP-UNV-L835-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-LD5-70-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

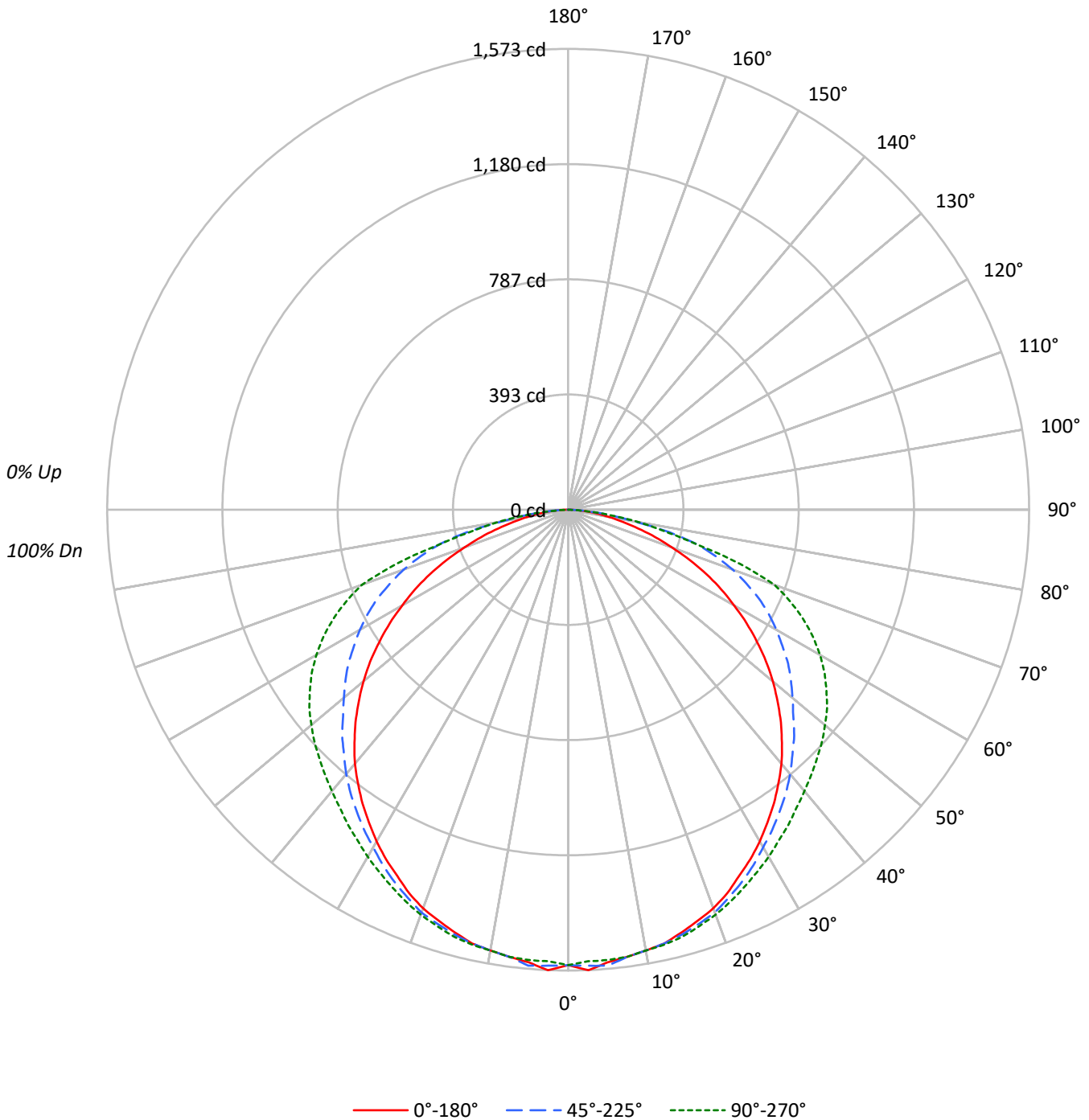
Lumens per Lamp: N/A
Luminaire Lumens: 4893.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 64.22
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	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°	2091	2091	2091
5°	2090	2100	2075
10°	2078	2068	2069
15°	2067	2062	2074
20°	2055	2055	2068
25°	2025	2032	2062
30°	2002	2005	2066
35°	1975	1992	2081
40°	1948	1981	2114
45°	1905	1971	2176
50°	1854	1968	2260
55°	1782	1997	2355
60°	1686	2023	2456
65°	1573	2053	2546
70°	1385	2049	2590
75°	1174	1963	1965
80°	954	1336	1468
85°	730	730	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.0
10°-20°	423.8	8.7
20°-30°	645.9	13.2
30°-40°	790.3	16.1
40°-50°	850.3	17.4
50°-60°	823.7	16.8
60°-70°	697.7	14.3
70°-80°	421.8	8.6
80°-90°	92.7	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°	1217.3	24.9
0°-40°	2007.6	41.0
0°-60°	3681.6	75.2
0°-90°	4893.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4893.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1551	1551	1562	1554	1543	147
15°	1494	1497	1501	1505	1509	422
25°	1380	1387	1402	1414	1421	637
35°	1224	1231	1258	1292	1311	765
45°	1026	1045	1091	1159	1201	791
55°	787	821	916	1022	1076	703
65°	521	578	718	832	886	513
75°	247	334	452	460	448	265
85°	61	72	76	72	68	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.4	1554.4	1554.4	1554.4	1554.4
2.5°	1573.4	1569.6	1558.2	1550.6	1543.0
5°	1550.6	1550.6	1562.0	1554.4	1543.0
7.5°	1539.2	1539.2	1539.2	1558.2	1539.2
10°	1527.8	1531.6	1527.8	1543.0	1527.8
12.5°	1516.4	1516.4	1516.4	1520.2	1520.2
15°	1493.6	1497.4	1501.2	1505.0	1508.8
17.5°	1470.8	1474.6	1482.2	1486.0	1489.8
20°	1448.0	1451.8	1463.2	1463.2	1470.8
22.5°	1417.6	1417.6	1432.8	1436.6	1448.0
25°	1379.6	1387.2	1402.4	1413.8	1421.4
27.5°	1345.4	1353.0	1368.2	1383.4	1394.8
30°	1307.4	1315.0	1330.2	1353.0	1368.2
32.5°	1265.5	1273.2	1296.0	1322.6	1337.8
35°	1223.7	1231.3	1257.9	1292.2	1311.2
37.5°	1178.1	1189.5	1219.9	1257.9	1280.8
40°	1132.5	1143.9	1178.1	1219.9	1254.1
42.5°	1079.3	1094.5	1132.5	1189.5	1227.5
45°	1026.1	1045.1	1090.7	1159.1	1200.9
47.5°	969.1	988.1	1041.3	1128.7	1174.3
50°	912.1	934.9	999.5	1094.5	1143.9
52.5°	851.3	874.1	957.7	1060.3	1113.5
55°	786.7	820.9	915.9	1022.3	1075.5
57.5°	722.1	760.1	866.5	980.5	1037.5
60°	653.7	699.3	820.9	934.9	991.9
62.5°	589.1	638.5	771.5	885.5	942.5
65°	520.7	577.7	718.3	832.3	885.5
67.5°	448.5	520.7	657.5	767.7	820.9
70°	376.2	459.9	596.7	699.3	748.7
72.5°	311.6	399.0	528.3	615.7	615.7
75°	247.0	334.4	452.3	459.9	448.5
77.5°	190.0	273.6	353.4	323.0	330.6
80°	140.6	209.0	224.2	235.6	243.2
82.5°	95.0	140.6	144.4	152.0	152.0
85°	60.8	72.2	76.0	72.2	68.4
87.5°	26.6	30.4	22.8	15.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)