

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-LD5-75-RDP-UNV-L850-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-LD5-75-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5442.6 lumens
Efficiency: N/A
Efficacy: 78.8 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

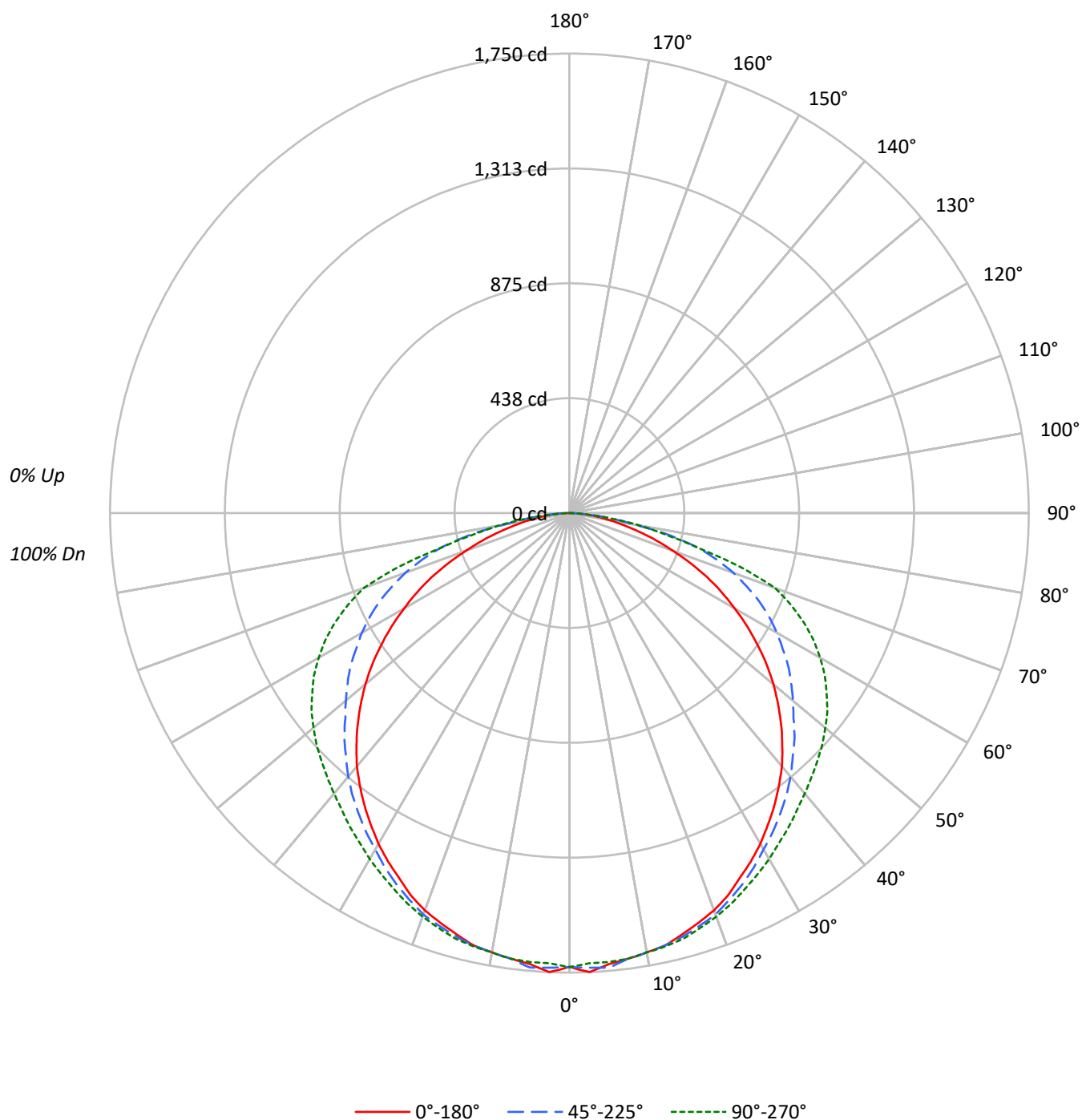
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2326	2326	2326
5°	2324	2335	2308
10°	2311	2300	2301
15°	2298	2293	2306
20°	2285	2286	2300
25°	2252	2260	2293
30°	2227	2230	2298
35°	2197	2216	2314
40°	2167	2203	2351
45°	2119	2192	2420
50°	2062	2188	2513
55°	1982	2221	2619
60°	1875	2250	2732
65°	1750	2283	2832
70°	1540	2279	2880
75°	1306	2183	2185
80°	1061	1486	1633
85°	812	812	748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.0
10°-20°	471.4	8.7
20°-30°	718.3	13.2
30°-40°	878.9	16.1
40°-50°	945.7	17.4
50°-60°	916.1	16.8
60°-70°	776.0	14.3
70°-80°	469.1	8.6
80°-90°	103.1	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°	1353.8	24.9
0°-40°	2232.7	41.0
0°-60°	4094.5	75.2
0°-90°	5442.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5442.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1724	1724	1737	1729	1716	164
15°	1661	1665	1670	1674	1678	469
25°	1534	1543	1560	1572	1581	708
35°	1361	1370	1399	1437	1458	851
45°	1141	1162	1213	1289	1336	880
55°	875	913	1019	1137	1196	782
65°	579	642	799	926	985	570
75°	275	372	503	511	499	295
85°	68	80	84	80	76	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.7	1728.7	1728.7	1728.7	1728.7
2.5°	1749.9	1745.6	1733.0	1724.5	1716.0
5°	1724.5	1724.5	1737.2	1728.7	1716.0
7.5°	1711.8	1711.8	1711.8	1733.0	1711.8
10°	1699.1	1703.4	1699.1	1716.0	1699.1
12.5°	1686.5	1686.5	1686.5	1690.7	1690.7
15°	1661.1	1665.3	1669.6	1673.8	1678.0
17.5°	1635.7	1640.0	1648.4	1652.6	1656.9
20°	1610.4	1614.6	1627.3	1627.3	1635.7
22.5°	1576.6	1576.6	1593.5	1597.7	1610.4
25°	1534.3	1542.7	1559.7	1572.3	1580.8
27.5°	1496.3	1504.7	1521.6	1538.5	1551.2
30°	1454.0	1462.4	1479.3	1504.7	1521.6
32.5°	1407.5	1415.9	1441.3	1470.9	1487.8
35°	1361.0	1369.5	1399.0	1437.1	1458.2
37.5°	1310.3	1323.0	1356.8	1399.0	1424.4
40°	1259.6	1272.2	1310.3	1356.8	1394.8
42.5°	1200.4	1217.3	1259.6	1323.0	1365.2
45°	1141.2	1162.3	1213.1	1289.1	1335.6
47.5°	1077.8	1098.9	1158.1	1255.3	1306.1
50°	1014.4	1039.8	1111.6	1217.3	1272.2
52.5°	946.8	972.1	1065.1	1179.3	1238.4
55°	874.9	913.0	1018.6	1137.0	1196.2
57.5°	803.1	845.3	963.7	1090.5	1153.9
60°	727.0	777.7	913.0	1039.8	1103.2
62.5°	655.1	710.1	858.0	984.8	1048.2
65°	579.1	642.5	798.8	925.6	984.8
67.5°	498.8	579.1	731.2	853.8	913.0
70°	418.4	511.4	663.6	777.7	832.7
72.5°	346.6	443.8	587.5	684.7	684.7
75°	274.7	372.0	503.0	511.4	498.8
77.5°	211.3	304.3	393.1	359.3	367.7
80°	156.4	232.5	249.4	262.1	270.5
82.5°	105.7	156.4	160.6	169.1	169.1
85°	67.6	80.3	84.5	80.3	76.1
87.5°	29.6	33.8	25.4	16.9	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)