

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-LD5-65-SQP-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-LD5-65-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014.6 lumens
Efficiency: N/A
Efficacy: 87.0 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

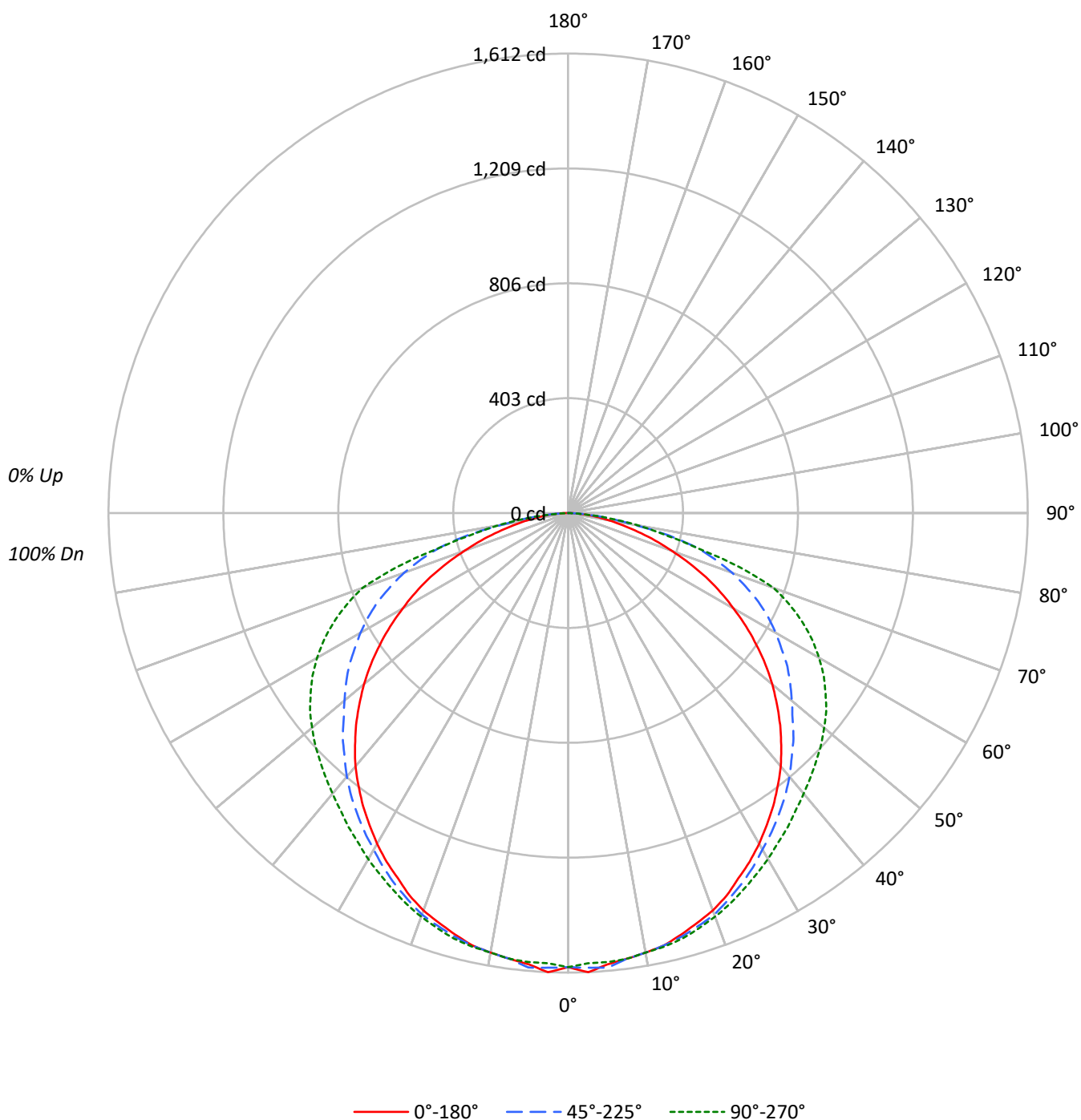
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2143	2143	2143
5°	2141	2152	2126
10°	2129	2119	2120
15°	2118	2113	2125
20°	2105	2106	2119
25°	2074	2082	2113
30°	2052	2055	2117
35°	2024	2041	2132
40°	1996	2030	2166
45°	1952	2020	2230
50°	1900	2016	2316
55°	1826	2047	2413
60°	1728	2073	2517
65°	1612	2104	2609
70°	1419	2099	2654
75°	1203	2011	2013
80°	978	1369	1504
85°	748	749	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.0
10°-20°	434.3	8.7
20°-30°	661.8	13.2
30°-40°	809.8	16.1
40°-50°	871.3	17.4
50°-60°	844.0	16.8
60°-70°	714.9	14.3
70°-80°	432.2	8.6
80°-90°	95.0	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°	1247.4	24.9
0°-40°	2057.1	41.0
0°-60°	3772.5	75.2
0°-90°	5014.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1589	1589	1600	1593	1581	151
15°	1530	1534	1538	1542	1546	432
25°	1414	1421	1437	1449	1456	653
35°	1254	1262	1289	1324	1344	784
45°	1052	1071	1118	1188	1231	810
55°	806	841	938	1048	1102	720
65°	534	592	736	853	907	525
75°	253	343	463	471	460	272
85°	62	74	78	74	70	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1612.2	1608.3	1596.7	1588.9	1581.1
5°	1588.9	1588.9	1600.5	1592.8	1581.1
7.5°	1577.2	1577.2	1577.2	1596.7	1577.2
10°	1565.5	1569.4	1565.5	1581.1	1565.5
12.5°	1553.8	1553.8	1553.8	1557.7	1557.7
15°	1530.5	1534.3	1538.2	1542.1	1546.0
17.5°	1507.1	1511.0	1518.8	1522.7	1526.6
20°	1483.7	1487.6	1499.3	1499.3	1507.1
22.5°	1452.6	1452.6	1468.1	1472.0	1483.7
25°	1413.6	1421.4	1437.0	1448.7	1456.5
27.5°	1378.6	1386.4	1401.9	1417.5	1429.2
30°	1339.6	1347.4	1363.0	1386.4	1401.9
32.5°	1296.8	1304.6	1327.9	1355.2	1370.8
35°	1254.0	1261.7	1289.0	1324.1	1343.5
37.5°	1207.2	1218.9	1250.1	1289.0	1312.4
40°	1160.5	1172.2	1207.2	1250.1	1285.1
42.5°	1106.0	1121.6	1160.5	1218.9	1257.9
45°	1051.5	1070.9	1117.7	1187.8	1230.6
47.5°	993.0	1012.5	1067.0	1156.6	1203.3
50°	934.6	958.0	1024.2	1121.6	1172.2
52.5°	872.3	895.7	981.4	1086.5	1141.0
55°	806.1	841.2	938.5	1047.6	1102.1
57.5°	739.9	778.9	887.9	1004.7	1063.1
60°	669.8	716.5	841.2	958.0	1016.4
62.5°	603.6	654.2	790.5	907.4	965.8
65°	533.5	591.9	736.0	852.8	907.4
67.5°	459.5	533.5	673.7	786.6	841.2
70°	385.5	471.2	611.4	716.5	767.2
72.5°	319.3	408.9	541.3	630.9	630.9
75°	253.1	342.7	463.4	471.2	459.5
77.5°	194.7	280.4	362.2	331.0	338.8
80°	144.1	214.2	229.8	241.4	249.2
82.5°	97.4	144.1	148.0	155.8	155.8
85°	62.3	74.0	77.9	74.0	70.1
87.5°	27.3	31.2	23.4	15.6	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)