

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-LD5-60-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-LD5-60-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.7 lumens
Efficiency: N/A
Efficacy: 89.1 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

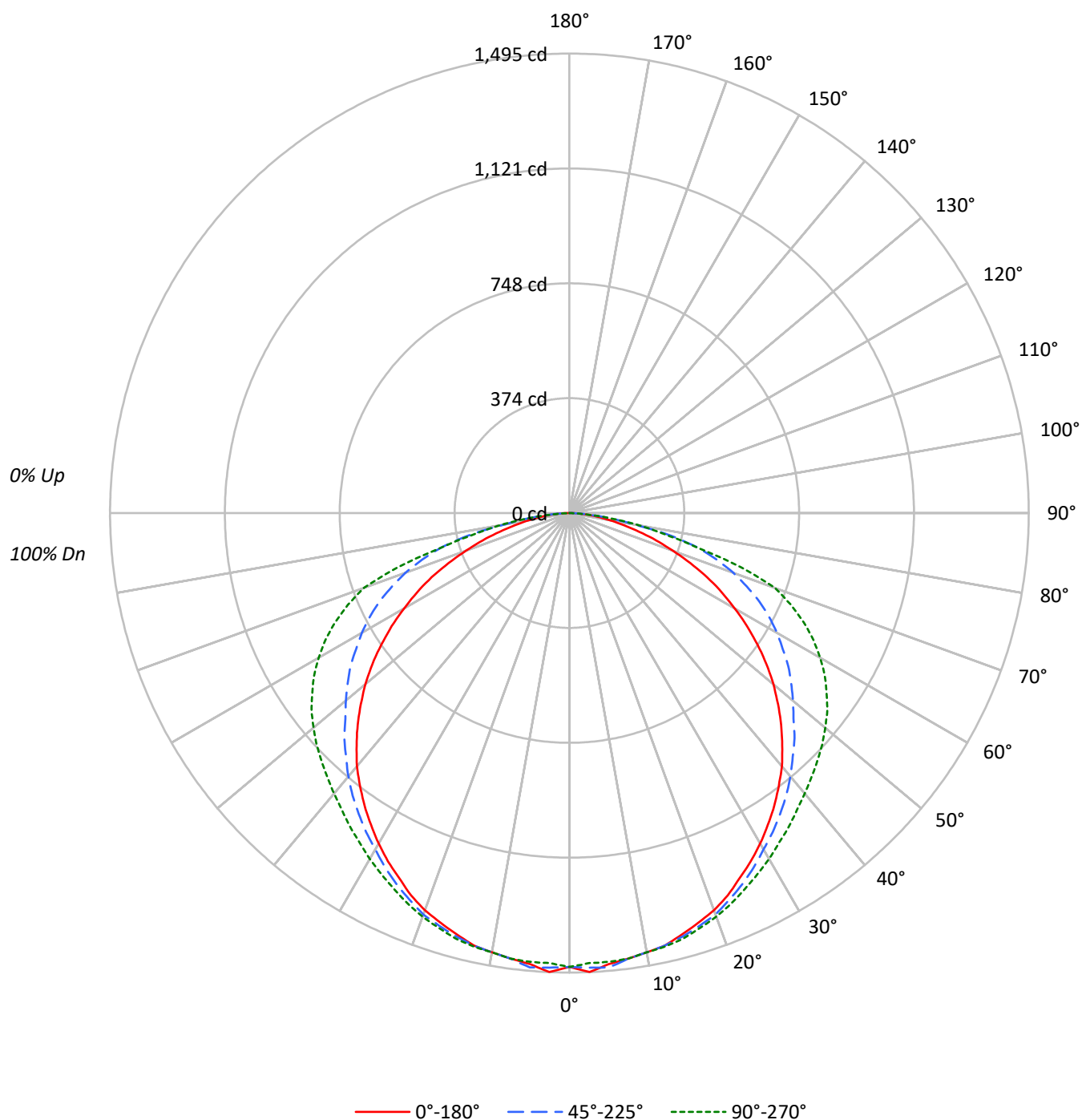
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1987	1987	1987
5°	1985	1995	1971
10°	1974	1964	1966
15°	1963	1959	1970
20°	1952	1952	1965
25°	1923	1930	1959
30°	1902	1905	1963
35°	1877	1893	1977
40°	1851	1882	2008
45°	1809	1872	2067
50°	1761	1869	2147
55°	1693	1897	2237
60°	1601	1922	2334
65°	1495	1950	2419
70°	1316	1946	2460
75°	1116	1864	1866
80°	907	1269	1394
85°	694	694	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	3.0
10°-20°	402.6	8.7
20°-30°	613.5	13.2
30°-40°	750.7	16.1
40°-50°	807.7	17.4
50°-60°	782.4	16.8
60°-70°	662.8	14.3
70°-80°	400.6	8.6
80°-90°	88.0	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°	1156.3	24.9
0°-40°	1907.1	41.0
0°-60°	3497.2	75.2
0°-90°	4648.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1473	1473	1484	1477	1466	140
15°	1419	1422	1426	1430	1433	401
25°	1310	1318	1332	1343	1350	605
35°	1162	1170	1195	1228	1246	727
45°	975	993	1036	1101	1141	751
55°	747	780	870	971	1022	668
65°	495	549	682	791	841	487
75°	235	318	430	437	426	252
85°	58	69	72	69	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.6	1476.6	1476.6	1476.6	1476.6
2.5°	1494.6	1491.0	1480.2	1472.9	1465.7
5°	1472.9	1472.9	1483.8	1476.6	1465.7
7.5°	1462.1	1462.1	1462.1	1480.2	1462.1
10°	1451.3	1454.9	1451.3	1465.7	1451.3
12.5°	1440.5	1440.5	1440.5	1444.1	1444.1
15°	1418.8	1422.4	1426.0	1429.6	1433.2
17.5°	1397.1	1400.7	1408.0	1411.6	1415.2
20°	1375.5	1379.1	1389.9	1389.9	1397.1
22.5°	1346.6	1346.6	1361.0	1364.6	1375.5
25°	1310.5	1317.7	1332.1	1343.0	1350.2
27.5°	1278.0	1285.2	1299.7	1314.1	1324.9
30°	1241.9	1249.1	1263.6	1285.2	1299.7
32.5°	1202.2	1209.4	1231.1	1256.3	1270.8
35°	1162.5	1169.7	1195.0	1227.5	1245.5
37.5°	1119.1	1130.0	1158.9	1195.0	1216.6
40°	1075.8	1086.7	1119.1	1158.9	1191.4
42.5°	1025.3	1039.7	1075.8	1130.0	1166.1
45°	974.7	992.8	1036.1	1101.1	1140.8
47.5°	920.6	938.6	989.2	1072.2	1115.5
50°	866.4	888.1	949.5	1039.7	1086.7
52.5°	808.7	830.3	909.8	1007.2	1057.8
55°	747.3	779.8	870.0	971.1	1021.7
57.5°	685.9	722.0	823.1	931.4	985.6
60°	620.9	664.3	779.8	888.1	942.3
62.5°	559.6	606.5	732.9	841.2	895.3
65°	494.6	548.7	682.3	790.6	841.2
67.5°	426.0	494.6	624.6	729.3	779.8
70°	357.4	436.8	566.8	664.3	711.2
72.5°	296.0	379.1	501.8	584.8	584.8
75°	234.7	317.7	429.6	436.8	426.0
77.5°	180.5	259.9	335.7	306.9	314.1
80°	133.6	198.6	213.0	223.8	231.0
82.5°	90.3	133.6	137.2	144.4	144.4
85°	57.8	68.6	72.2	68.6	65.0
87.5°	25.3	28.9	21.7	14.4	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)