

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: PORTFOLIO

Report Number: P127960

Luminaire Tested: **LSM70W9035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24508)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSM70W9035D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 90 CRI, 3500K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5628.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

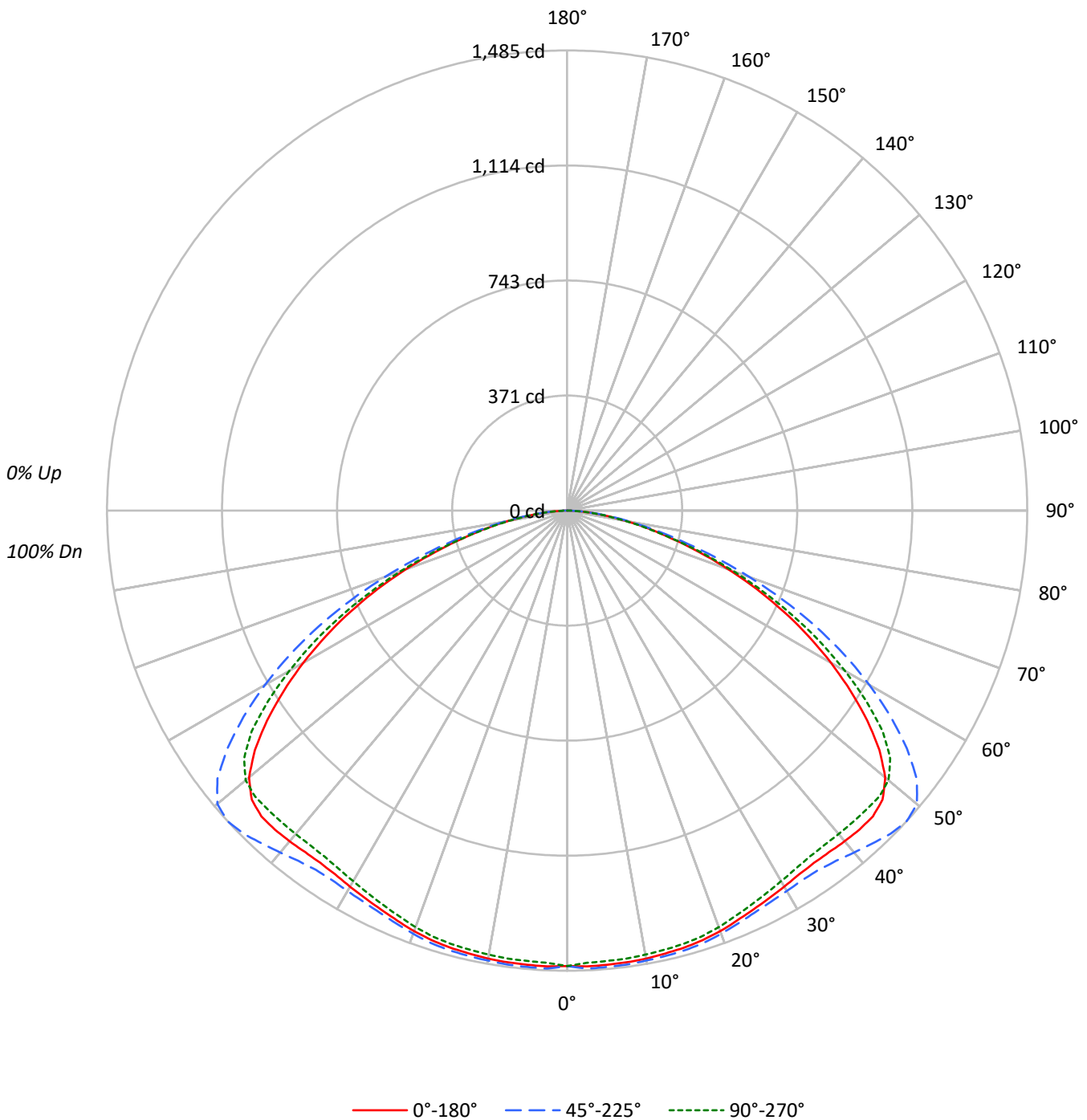
Input Watts (W): 74.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	73	60	50	43	71	59	50	43	57	49	43	54	48	42	53	47	42	39
6	67	53	44	37	65	52	43	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	22	34	27	22	33	27	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15915	15915	15915
5°	15993	16072	15860
10°	16142	16213	15999
15°	16366	16466	16230
20°	16645	16748	16486
25°	16976	17103	16781
30°	17520	17724	17267
35°	18351	18707	18029
40°	19693	20360	19266
45°	21371	22594	20910
50°	22576	24827	22810
55°	22332	25270	23471
60°	21296	24419	22424
65°	19748	22689	20624
70°	17515	19756	18056
75°	14690	16120	14861
80°	11992	12802	11736
85°	8598	9107	8399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	2.5
10°-20°	412.4	7.3
20°-30°	656.7	11.7
30°-40°	877.9	15.6
40°-50°	1099.6	19.5
50°-60°	1128.9	20.1
60°-70°	825.0	14.7
70°-80°	400.5	7.1
80°-90°	87.7	1.6
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°	1209.1	21.5
0°-40°	2087.0	37.1
0°-60°	4315.5	76.7
0°-90°	5628.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5628.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1471	1466	1479	1461	1459	140
15°	1460	1457	1469	1452	1448	413
25°	1421	1419	1431	1413	1404	657
35°	1388	1396	1415	1385	1364	874
45°	1396	1432	1475	1417	1365	1072
55°	1183	1247	1338	1302	1243	1051
65°	771	820	886	852	805	761
75°	351	370	385	370	355	379
85°	69	72	73	70	68	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1469.7	1469.7	1469.7	1469.7	1469.7
2.5°	1472.1	1467.2	1479.4	1461.5	1460.7
5°	1471.3	1466.4	1478.6	1460.7	1459.1
7.5°	1470.5	1466.4	1477.8	1459.9	1458.3
10°	1468.0	1463.1	1474.5	1457.4	1455.0
12.5°	1464.0	1459.9	1472.1	1454.2	1451.7
15°	1459.9	1456.6	1468.8	1451.7	1447.7
17.5°	1453.4	1450.1	1463.1	1445.2	1441.1
20°	1444.4	1441.1	1453.4	1436.3	1430.6
22.5°	1432.2	1428.9	1442.0	1424.0	1416.7
25°	1420.8	1419.1	1431.4	1412.6	1404.5
27.5°	1410.2	1410.2	1423.2	1402.9	1392.3
30°	1401.2	1402.9	1417.5	1394.7	1380.9
32.5°	1392.3	1397.2	1413.4	1387.4	1371.1
35°	1388.2	1395.5	1415.1	1384.9	1363.8
37.5°	1389.0	1402.0	1424.9	1388.2	1361.3
40°	1393.1	1412.6	1440.3	1396.3	1362.9
42.5°	1396.3	1423.2	1457.4	1406.1	1363.8
45°	1395.5	1432.2	1475.4	1416.7	1365.4
47.5°	1380.9	1428.1	1485.1	1424.9	1366.2
50°	1340.1	1397.2	1473.7	1418.3	1354.0
52.5°	1270.1	1333.6	1422.4	1377.6	1314.1
55°	1182.9	1247.3	1338.5	1301.8	1243.2
57.5°	1085.1	1150.3	1238.3	1202.4	1144.6
60°	983.3	1044.4	1127.5	1091.7	1035.4
62.5°	878.2	934.4	1010.2	976.0	923.0
65°	770.7	820.4	885.5	852.1	804.9
67.5°	661.5	703.1	755.2	725.9	685.9
70°	553.2	585.7	624.0	600.4	570.3
72.5°	447.3	477.4	500.2	479.8	458.7
75°	351.1	369.9	385.3	369.9	355.2
77.5°	268.8	279.4	287.6	275.4	264.0
80°	192.3	202.0	205.3	196.3	188.2
82.5°	125.5	132.0	134.4	127.9	123.0
85°	69.2	71.7	73.3	70.1	67.6
87.5°	22.0	22.8	24.4	22.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)