

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: P127959

Luminaire Tested: **LSM70W9030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127959
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: LSM70W9030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489.7 lumens
Efficiency: N/A
Efficacy: 73.5 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

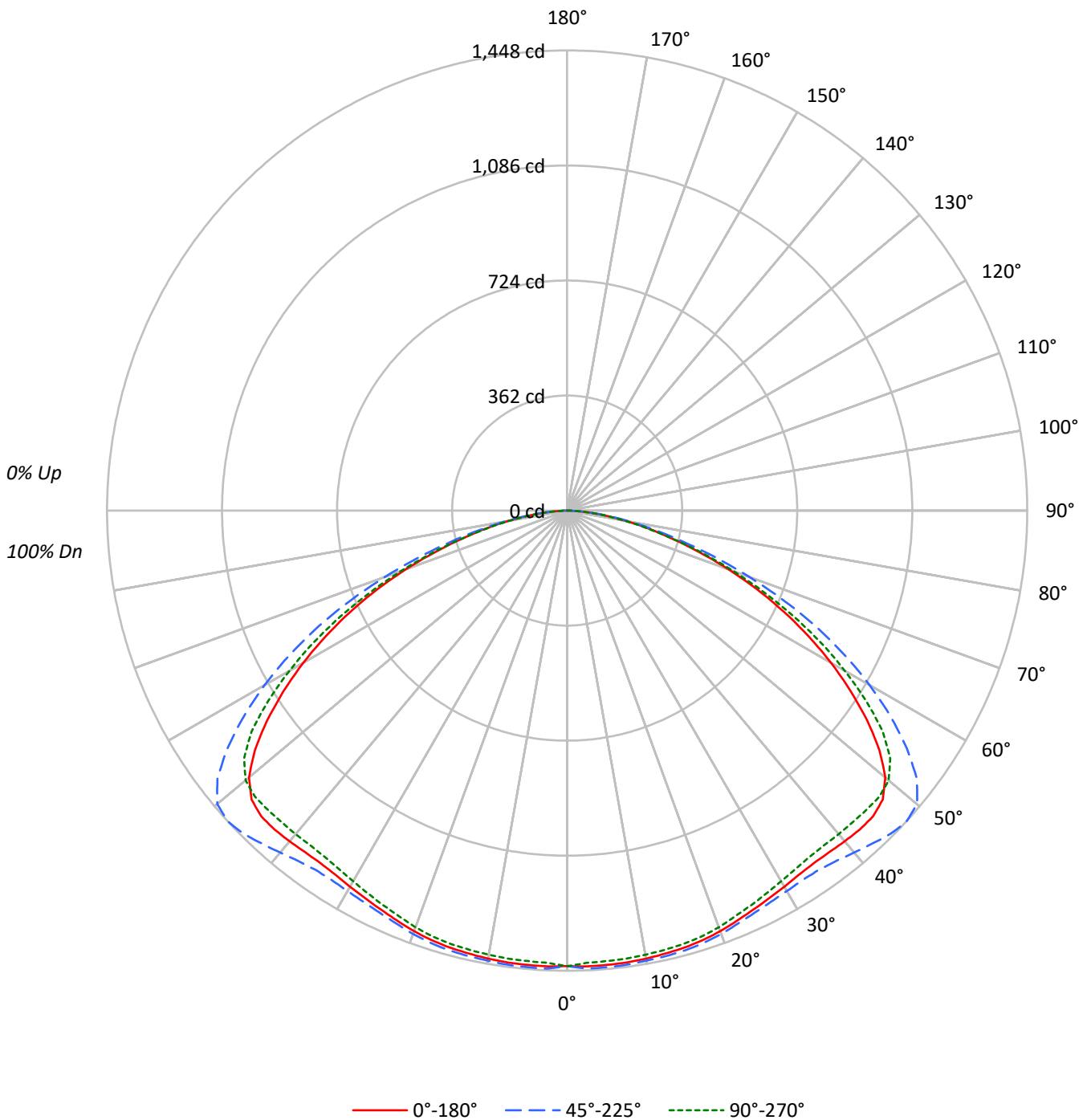
Input Watts (W): 74.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15522	15522	15522
5°	15599	15676	15468
10°	15744	15813	15604
15°	15962	16060	15828
20°	16233	16335	16078
25°	16557	16680	16367
30°	17088	17287	16840
35°	17898	18244	17583
40°	19206	19858	18791
45°	20844	22035	20394
50°	22018	24213	22246
55°	21781	24645	22891
60°	20769	23817	21872
65°	19258	22130	20114
70°	17081	19269	17610
75°	14326	15723	14493
80°	11692	12484	11443
85°	8387	8884	8188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	2.5
10°-20°	402.2	7.3
20°-30°	640.5	11.7
30°-40°	856.2	15.6
40°-50°	1072.4	19.5
50°-60°	1101.1	20.1
60°-70°	804.6	14.7
70°-80°	390.6	7.1
80°-90°	85.5	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°	1179.2	21.5
0°-40°	2035.5	37.1
0°-60°	4209.0	76.7
0°-90°	5489.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5489.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1435	1430	1442	1425	1423	137
15°	1424	1421	1433	1416	1412	403
25°	1386	1384	1396	1378	1370	641
35°	1354	1361	1380	1351	1330	853
45°	1361	1397	1439	1382	1332	1046
55°	1154	1216	1305	1270	1212	1025
65°	752	800	864	831	785	742
75°	342	361	376	361	346	370
85°	68	70	72	68	66	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.4	1433.4	1433.4	1433.4	1433.4
2.5°	1435.7	1431.0	1442.9	1425.4	1424.6
5°	1435.0	1430.2	1442.1	1424.6	1423.0
7.5°	1434.2	1430.2	1441.3	1423.8	1422.2
10°	1431.8	1427.0	1438.1	1421.4	1419.1
12.5°	1427.8	1423.8	1435.7	1418.3	1415.9
15°	1423.8	1420.6	1432.6	1415.9	1411.9
17.5°	1417.5	1414.3	1427.0	1409.5	1405.6
20°	1408.7	1405.6	1417.5	1400.8	1395.2
22.5°	1396.8	1393.6	1406.3	1388.9	1381.7
25°	1385.7	1384.1	1396.0	1377.7	1369.8
27.5°	1375.4	1375.4	1388.1	1368.2	1357.9
30°	1366.6	1368.2	1382.5	1360.3	1346.8
32.5°	1357.9	1362.6	1378.5	1353.1	1337.2
35°	1353.9	1361.1	1380.1	1350.7	1330.1
37.5°	1354.7	1367.4	1389.7	1353.9	1327.7
40°	1358.7	1377.7	1404.8	1361.9	1329.3
42.5°	1361.9	1388.1	1421.4	1371.4	1330.1
45°	1361.1	1396.8	1438.9	1381.7	1331.7
47.5°	1346.8	1392.8	1448.5	1389.7	1332.5
50°	1307.0	1362.6	1437.3	1383.3	1320.5
52.5°	1238.7	1300.7	1387.3	1343.6	1281.6
55°	1153.7	1216.5	1305.4	1269.7	1212.5
57.5°	1058.3	1121.9	1207.7	1172.8	1116.3
60°	959.0	1018.6	1099.7	1064.7	1009.9
62.5°	856.5	911.3	985.2	951.9	900.2
65°	751.6	800.1	863.7	831.1	785.0
67.5°	645.2	685.7	736.5	707.9	669.0
70°	539.5	571.3	608.6	585.6	556.2
72.5°	436.2	465.6	487.9	468.0	447.3
75°	342.4	360.7	375.8	360.7	346.4
77.5°	262.2	272.5	280.5	268.6	257.4
80°	187.5	197.0	200.2	191.5	183.5
82.5°	122.4	128.7	131.1	124.7	120.0
85°	67.5	69.9	71.5	68.3	65.9
87.5°	21.5	22.2	23.8	21.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)