

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: P127958

Luminaire Tested: **LSM70W9027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127958
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: LSM70W9027D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 2700K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5250.5 lumens
Efficiency: N/A
Efficacy: 70.3 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

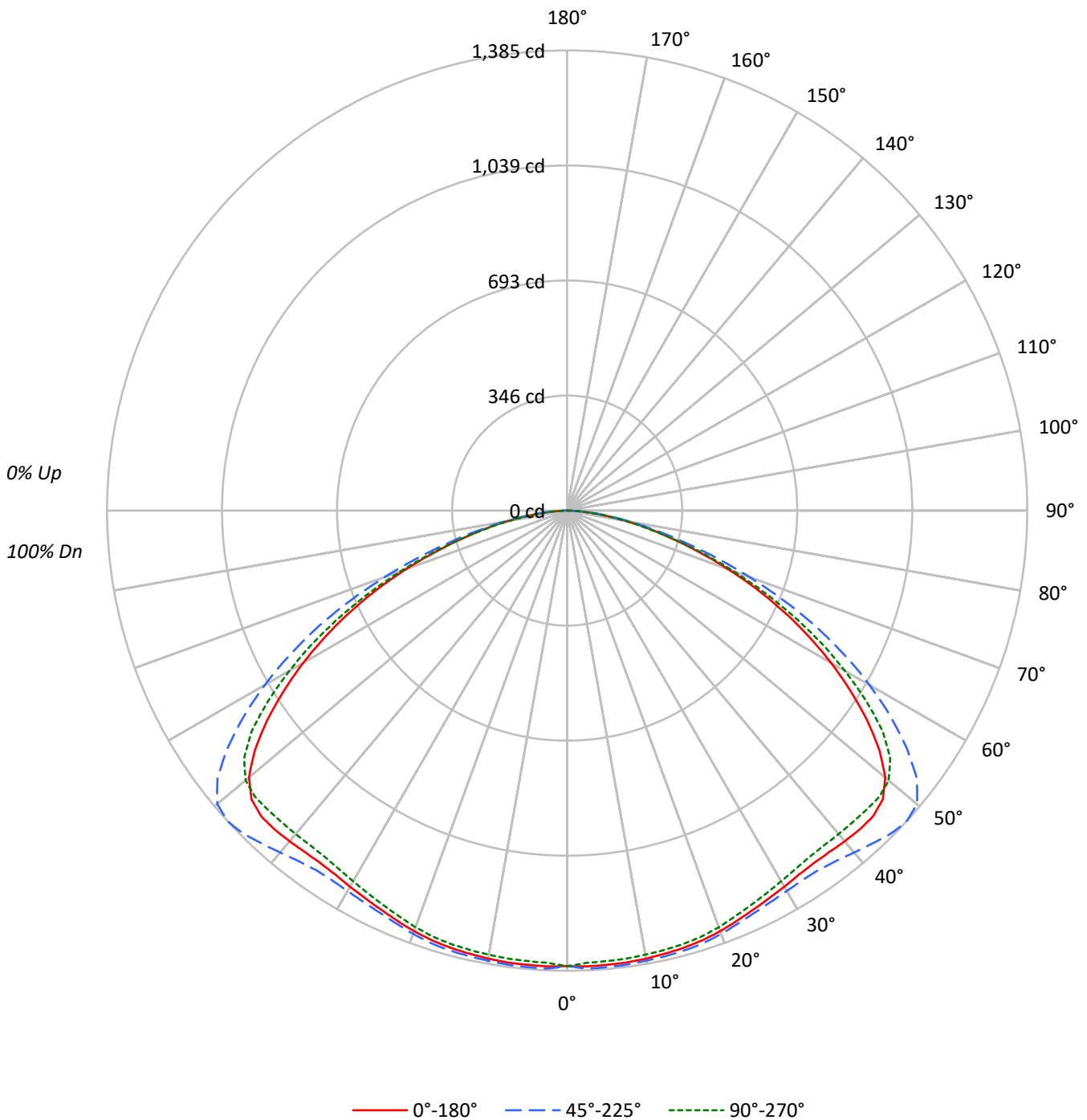
Input Watts (W): 74.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14845	14845	14845
5°	14918	14993	14794
10°	15058	15125	14923
15°	15267	15361	15139
20°	15527	15623	15377
25°	15835	15953	15653
30°	16344	16534	16106
35°	17118	17450	16816
40°	18370	18993	17972
45°	19936	21075	19506
50°	21060	23159	21277
55°	20831	23573	21894
60°	19864	22779	20919
65°	18420	21164	19238
70°	16337	18430	16844
75°	13702	15037	13861
80°	11181	11942	10944
85°	8026	8498	7840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	2.5
10°-20°	384.7	7.3
20°-30°	612.6	11.7
30°-40°	818.9	15.6
40°-50°	1025.7	19.5
50°-60°	1053.1	20.1
60°-70°	769.6	14.7
70°-80°	373.6	7.1
80°-90°	81.8	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°	1127.9	21.5
0°-40°	1946.8	37.1
0°-60°	4025.6	76.7
0°-90°	5250.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5250.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1372	1368	1379	1363	1361	131
15°	1362	1359	1370	1354	1350	385
25°	1325	1324	1335	1318	1310	613
35°	1295	1302	1320	1292	1272	815
45°	1302	1336	1376	1322	1274	1000
55°	1103	1164	1249	1214	1160	980
65°	719	765	826	795	751	710
75°	328	345	359	345	331	354
85°	65	67	68	65	63	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.9	1370.9	1370.9	1370.9	1370.9
2.5°	1373.2	1368.6	1380.0	1363.3	1362.6
5°	1372.4	1367.9	1379.3	1362.6	1361.0
7.5°	1371.7	1367.9	1378.5	1361.8	1360.3
10°	1369.4	1364.8	1375.5	1359.5	1357.2
12.5°	1365.6	1361.8	1373.2	1356.5	1354.2
15°	1361.8	1358.8	1370.2	1354.2	1350.4
17.5°	1355.7	1352.7	1364.8	1348.1	1344.3
20°	1347.4	1344.3	1355.7	1339.8	1334.4
22.5°	1336.0	1332.9	1345.1	1328.4	1321.5
25°	1325.3	1323.8	1335.2	1317.7	1310.1
27.5°	1315.4	1315.4	1327.6	1308.6	1298.7
30°	1307.1	1308.6	1322.3	1301.0	1288.1
32.5°	1298.7	1303.3	1318.5	1294.2	1279.0
35°	1294.9	1301.8	1320.0	1291.9	1272.1
37.5°	1295.7	1307.8	1329.1	1294.9	1269.9
40°	1299.5	1317.7	1343.6	1302.5	1271.4
42.5°	1302.5	1327.6	1359.5	1311.6	1272.1
45°	1301.8	1336.0	1376.2	1321.5	1273.7
47.5°	1288.1	1332.2	1385.4	1329.1	1274.4
50°	1250.1	1303.3	1374.7	1323.0	1263.0
52.5°	1184.7	1244.0	1326.8	1285.1	1225.8
55°	1103.4	1163.5	1248.6	1214.4	1159.7
57.5°	1012.2	1073.0	1155.1	1121.7	1067.7
60°	917.2	974.2	1051.8	1018.3	965.9
62.5°	819.2	871.6	942.3	910.4	861.0
65°	718.9	765.3	826.0	794.9	750.8
67.5°	617.1	655.8	704.5	677.1	639.9
70°	516.0	546.4	582.1	560.1	532.0
72.5°	417.2	445.3	466.6	447.6	427.8
75°	327.5	345.0	359.4	345.0	331.3
77.5°	250.8	260.7	268.3	256.9	246.2
80°	179.3	188.5	191.5	183.1	175.5
82.5°	117.0	123.1	125.4	119.3	114.8
85°	64.6	66.9	68.4	65.4	63.1
87.5°	20.5	21.3	22.8	20.5	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)