

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: P127954

Luminaire Tested: **LSM70W8027D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127954  
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: LSM70W8027D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 2700K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6210.1 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

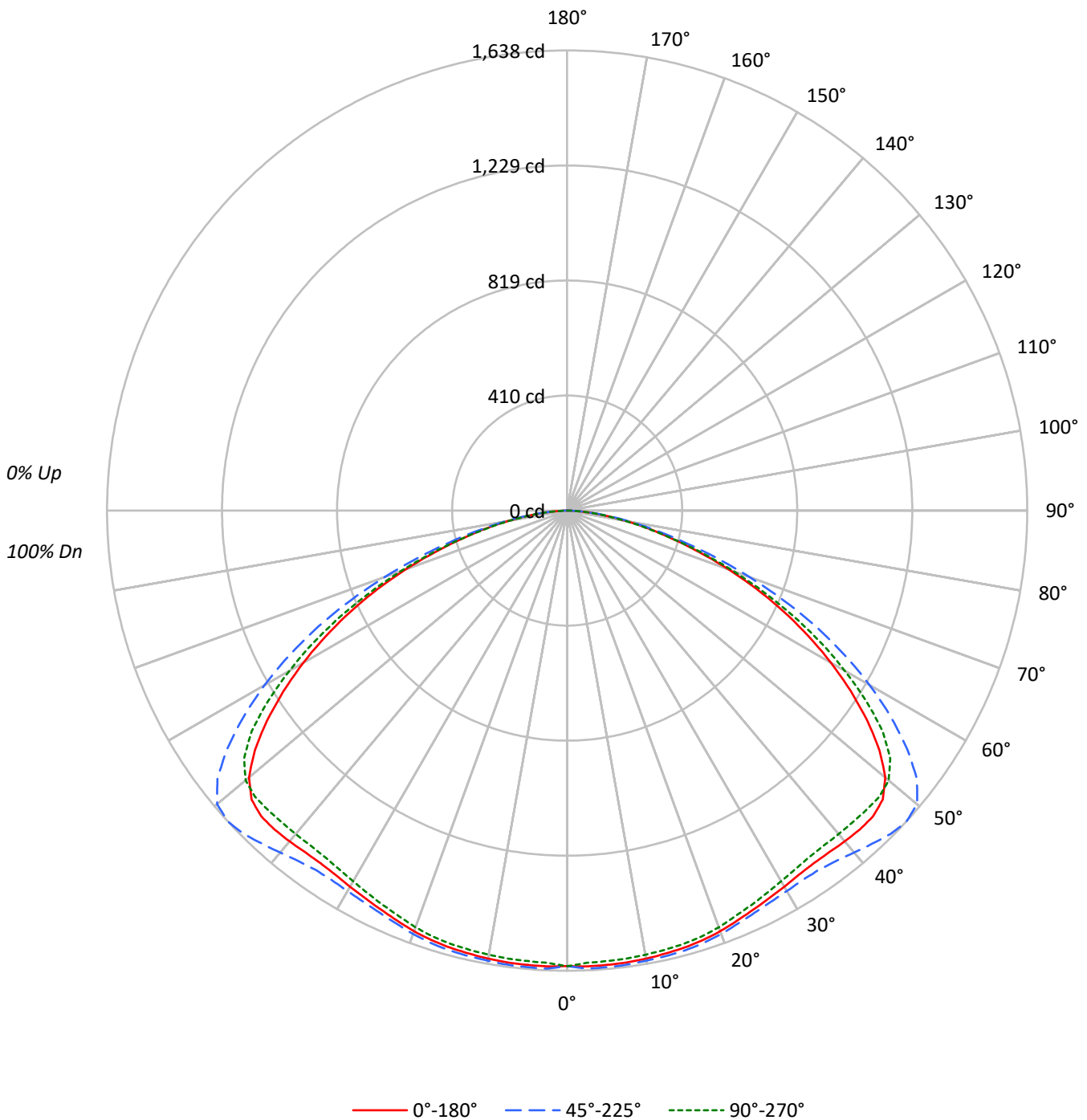
Input Watts (W): 74.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17559	17559	17559
5°	17645	17732	17499
10°	17810	17889	17651
15°	18057	18168	17906
20°	18364	18478	18188
25°	18729	18868	18515
30°	19331	19555	19050
35°	20247	20638	19890
40°	21727	22463	21256
45°	23579	24928	23069
50°	24907	27392	25165
55°	24639	27881	25895
60°	23496	26942	24741
65°	21787	25034	22753
70°	19323	21799	19921
75°	16208	17786	16397
80°	13227	14125	12946
85°	9492	10051	9269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	2.5
10°-20°	455.0	7.3
20°-30°	724.5	11.7
30°-40°	968.6	15.6
40°-50°	1213.2	19.5
50°-60°	1245.6	20.1
60°-70°	910.2	14.7
70°-80°	441.8	7.1
80°-90°	96.7	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°	1334.0	21.5
0°-40°	2302.6	37.1
0°-60°	4761.3	76.7
0°-90°	6210.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6210.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1623	1618	1631	1612	1610	155
15°	1611	1607	1621	1602	1597	456
25°	1568	1566	1579	1558	1550	725
35°	1532	1540	1561	1528	1505	964
45°	1540	1580	1628	1563	1506	1183
55°	1305	1376	1477	1436	1372	1160
65°	850	905	977	940	888	840
75°	387	408	425	408	392	419
85°	76	79	81	77	75	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1624.2	1618.8	1632.2	1612.5	1611.6
5°	1623.3	1617.9	1631.3	1611.6	1609.8
7.5°	1622.4	1617.9	1630.4	1610.7	1608.9
10°	1619.7	1614.3	1626.9	1608.0	1605.3
12.5°	1615.2	1610.7	1624.2	1604.4	1601.7
15°	1610.7	1607.1	1620.6	1601.7	1597.2
17.5°	1603.5	1599.9	1614.3	1594.5	1590.0
20°	1593.6	1590.0	1603.5	1584.6	1578.3
22.5°	1580.1	1576.5	1590.9	1571.1	1563.0
25°	1567.5	1565.7	1579.2	1558.5	1549.6
27.5°	1555.8	1555.8	1570.2	1547.8	1536.1
30°	1546.0	1547.8	1563.9	1538.8	1523.5
32.5°	1536.1	1541.5	1559.4	1530.7	1512.7
35°	1531.6	1539.7	1561.2	1528.0	1504.6
37.5°	1532.5	1546.9	1572.0	1531.6	1501.9
40°	1537.0	1558.5	1589.1	1540.6	1503.7
42.5°	1540.6	1570.2	1608.0	1551.4	1504.6
45°	1539.7	1580.1	1627.8	1563.0	1506.4
47.5°	1523.5	1575.6	1638.5	1572.0	1507.3
50°	1478.5	1541.5	1626.0	1564.8	1493.8
52.5°	1401.3	1471.4	1569.3	1519.9	1449.8
55°	1305.1	1376.1	1476.8	1436.3	1371.6
57.5°	1197.2	1269.1	1366.2	1326.7	1262.8
60°	1084.9	1152.3	1244.0	1204.4	1142.4
62.5°	968.9	1030.9	1114.5	1076.8	1018.4
65°	850.3	905.1	977.0	940.2	888.0
67.5°	729.8	775.7	833.2	800.8	756.8
70°	610.3	646.2	688.5	662.4	629.2
72.5°	493.4	526.7	551.9	529.4	506.0
75°	387.4	408.1	425.1	408.1	391.9
77.5°	296.6	308.3	317.3	303.8	291.2
80°	212.1	222.9	226.5	216.6	207.6
82.5°	138.4	145.6	148.3	141.1	135.7
85°	76.4	79.1	80.9	77.3	74.6
87.5°	24.3	25.2	27.0	24.3	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)