

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: P127955

Luminaire Tested: **LSM70W8030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127955
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: LSM70W8030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

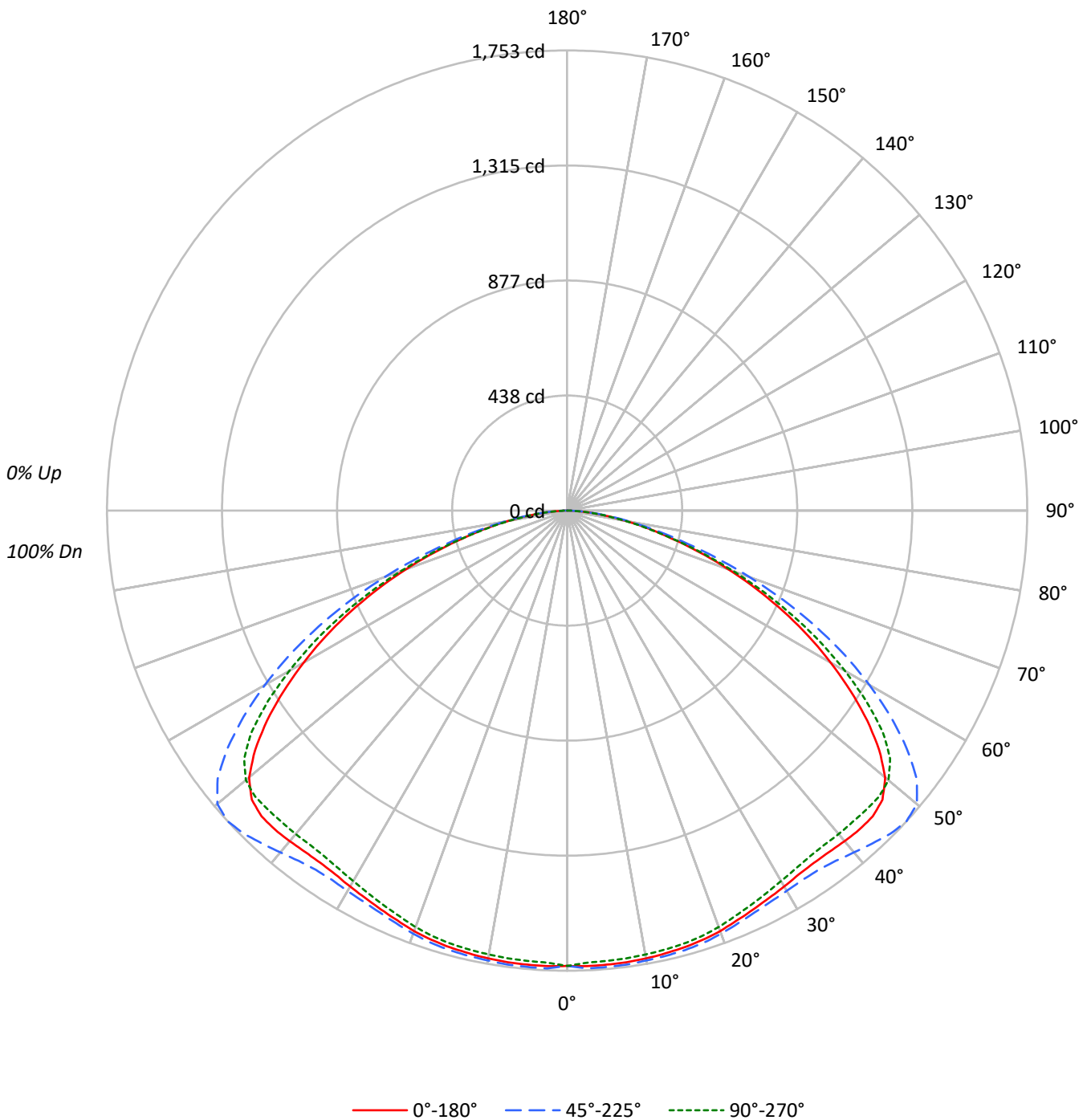
Lumens per Lamp: N/A
Luminaire Lumens: 6642.8 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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°	18781	18781	18781
5°	18875	18968	18717
10°	19050	19135	18881
15°	19315	19434	19153
20°	19643	19765	19455
25°	20035	20184	19804
30°	20678	20918	20376
35°	21657	22076	21277
40°	23241	24028	22737
45°	25221	26665	24677
50°	26644	29299	26919
55°	26355	29822	27700
60°	25133	28817	26465
65°	23304	26778	24339
70°	20668	23318	21308
75°	17338	19028	17539
80°	14149	15110	13850
85°	10151	10747	9915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.5
10°-20°	486.7	7.3
20°-30°	775.0	11.7
30°-40°	1036.1	15.6
40°-50°	1297.7	19.5
50°-60°	1332.4	20.1
60°-70°	973.7	14.7
70°-80°	472.6	7.1
80°-90°	103.4	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°	1426.9	21.5
0°-40°	2463.0	37.1
0°-60°	5093.0	76.7
0°-90°	6642.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6642.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1736	1731	1745	1724	1722	166
15°	1723	1719	1734	1713	1708	487
25°	1677	1675	1689	1667	1658	776
35°	1638	1647	1670	1634	1610	1032
45°	1647	1690	1741	1672	1611	1265
55°	1396	1472	1580	1536	1467	1240
65°	910	968	1045	1006	950	898
75°	414	436	455	436	419	448
85°	82	85	86	83	80	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.4	1734.4	1734.4	1734.4	1734.4
2.5°	1737.3	1731.6	1746.0	1724.8	1723.9
5°	1736.4	1730.6	1745.0	1723.9	1721.9
7.5°	1735.4	1730.6	1744.1	1722.9	1721.0
10°	1732.5	1726.7	1740.2	1720.0	1717.1
12.5°	1727.7	1722.9	1737.3	1716.2	1713.3
15°	1722.9	1719.1	1733.5	1713.3	1708.5
17.5°	1715.2	1711.4	1726.7	1705.6	1700.8
20°	1704.6	1700.8	1715.2	1695.0	1688.3
22.5°	1690.2	1686.4	1701.7	1680.6	1671.9
25°	1676.8	1674.8	1689.3	1667.1	1657.5
27.5°	1664.3	1664.3	1679.6	1655.6	1643.1
30°	1653.7	1655.6	1672.9	1646.0	1629.6
32.5°	1643.1	1648.9	1668.1	1637.3	1618.1
35°	1638.3	1646.9	1670.0	1634.4	1609.5
37.5°	1639.3	1654.6	1681.6	1638.3	1606.6
40°	1644.1	1667.1	1699.8	1647.9	1608.5
42.5°	1647.9	1679.6	1720.0	1659.4	1609.5
45°	1646.9	1690.2	1741.2	1671.9	1611.4
47.5°	1629.6	1685.4	1752.7	1681.6	1612.3
50°	1581.6	1648.9	1739.2	1673.9	1597.9
52.5°	1498.9	1573.9	1678.7	1625.8	1550.8
55°	1396.0	1472.0	1579.6	1536.4	1467.2
57.5°	1280.6	1357.6	1461.4	1419.1	1350.8
60°	1160.5	1232.6	1330.6	1288.3	1222.0
62.5°	1036.4	1102.8	1192.2	1151.8	1089.3
65°	909.5	968.2	1045.1	1005.7	949.9
67.5°	780.7	829.7	891.3	856.6	809.5
70°	652.8	691.3	736.5	708.6	673.0
72.5°	527.8	563.4	590.3	566.3	541.3
75°	414.4	436.5	454.8	436.5	419.2
77.5°	317.3	329.8	339.4	325.0	311.5
80°	226.9	238.4	242.3	231.7	222.1
82.5°	148.1	155.8	158.6	150.9	145.2
85°	81.7	84.6	86.5	82.7	79.8
87.5°	26.0	26.9	28.8	26.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)