

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: P127957

Luminaire Tested: **LSM70W8040D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127957  
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: LSM70W8040D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 4000K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7065.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

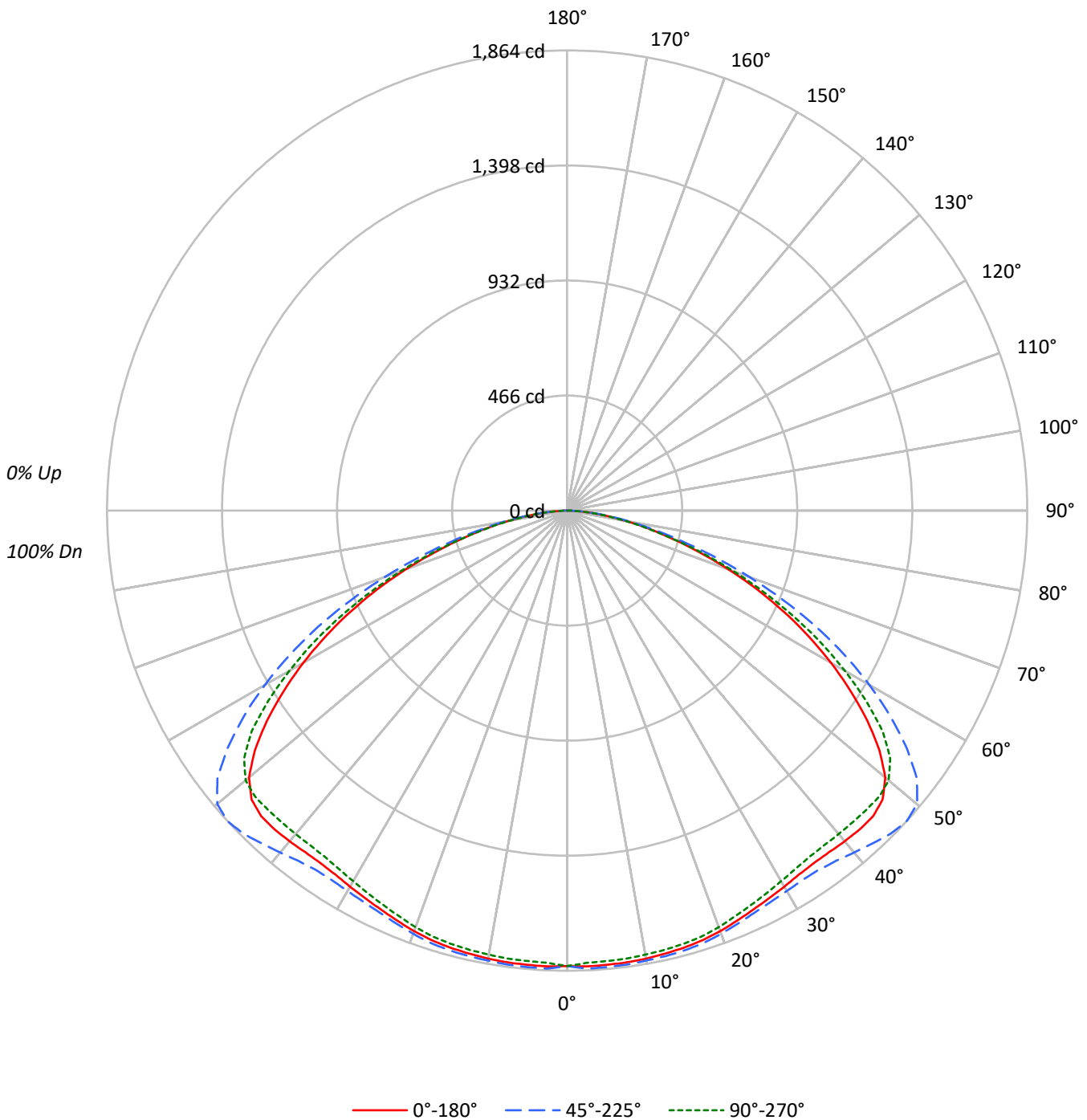
Input Watts (W): 74.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19978	19978	19978
5°	20076	20176	19910
10°	20264	20353	20084
15°	20545	20671	20373
20°	20895	21024	20694
25°	21309	21468	21066
30°	21994	22249	21674
35°	23036	23483	22632
40°	24721	25559	24185
45°	26827	28363	26248
50°	28341	31166	28634
55°	28034	31721	29463
60°	26734	30654	28150
65°	24788	28482	25889
70°	21985	24803	22666
75°	18443	20237	18656
80°	15054	16070	14729
85°	10797	11431	10548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	2.5
10°-20°	517.7	7.3
20°-30°	824.4	11.7
30°-40°	1102.0	15.6
40°-50°	1380.3	19.5
50°-60°	1417.2	20.1
60°-70°	1035.7	14.7
70°-80°	502.7	7.1
80°-90°	110.0	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°	1517.8	21.5
0°-40°	2619.9	37.1
0°-60°	5417.4	76.7
0°-90°	7065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7065.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1847	1841	1856	1834	1832	176
15°	1833	1828	1844	1822	1817	519
25°	1784	1782	1797	1773	1763	825
35°	1743	1752	1776	1738	1712	1097
45°	1752	1798	1852	1778	1714	1346
55°	1485	1566	1680	1634	1561	1319
65°	967	1030	1112	1070	1010	956
75°	441	464	484	464	446	476
85°	87	90	92	88	85	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1844.9	1844.9	1844.9	1844.9	1844.9
2.5°	1848.0	1841.8	1857.2	1834.7	1833.6
5°	1846.9	1840.8	1856.1	1833.6	1831.6
7.5°	1845.9	1840.8	1855.1	1832.6	1830.6
10°	1842.9	1836.7	1851.0	1829.6	1826.5
12.5°	1837.7	1832.6	1848.0	1825.5	1822.4
15°	1832.6	1828.5	1843.9	1822.4	1817.3
17.5°	1824.4	1820.4	1836.7	1814.2	1809.1
20°	1813.2	1809.1	1824.4	1803.0	1795.8
22.5°	1797.9	1793.8	1810.1	1787.6	1778.4
25°	1783.5	1781.5	1796.8	1773.3	1763.1
27.5°	1770.2	1770.2	1786.6	1761.0	1747.7
30°	1759.0	1761.0	1779.4	1750.8	1733.4
32.5°	1747.7	1753.9	1774.3	1741.6	1721.2
35°	1742.6	1751.8	1776.4	1738.5	1712.0
37.5°	1743.7	1760.0	1788.7	1742.6	1708.9
40°	1748.8	1773.3	1808.1	1752.9	1710.9
42.5°	1752.9	1786.6	1829.6	1765.1	1712.0
45°	1751.8	1797.9	1852.1	1778.4	1714.0
47.5°	1733.4	1792.7	1864.3	1788.7	1715.0
50°	1682.3	1753.9	1850.0	1780.5	1699.7
52.5°	1594.3	1674.1	1785.6	1729.3	1649.6
55°	1484.9	1565.7	1680.2	1634.2	1560.6
57.5°	1362.2	1444.0	1554.5	1509.5	1436.9
60°	1234.4	1311.1	1415.4	1370.4	1299.8
62.5°	1102.4	1173.0	1268.1	1225.2	1158.7
65°	967.4	1029.8	1111.6	1069.7	1010.4
67.5°	830.4	882.6	948.0	911.2	861.1
70°	694.4	735.3	783.4	753.7	715.9
72.5°	561.4	599.3	627.9	602.4	575.8
75°	440.8	464.3	483.7	464.3	445.9
77.5°	337.5	350.8	361.0	345.7	331.3
80°	241.4	253.6	257.7	246.5	236.2
82.5°	157.5	165.7	168.7	160.6	154.4
85°	86.9	90.0	92.0	87.9	84.9
87.5°	27.6	28.6	30.7	27.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)