

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: P127963

Luminaire Tested: **LSM80W8030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127963
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: LSM80W8030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

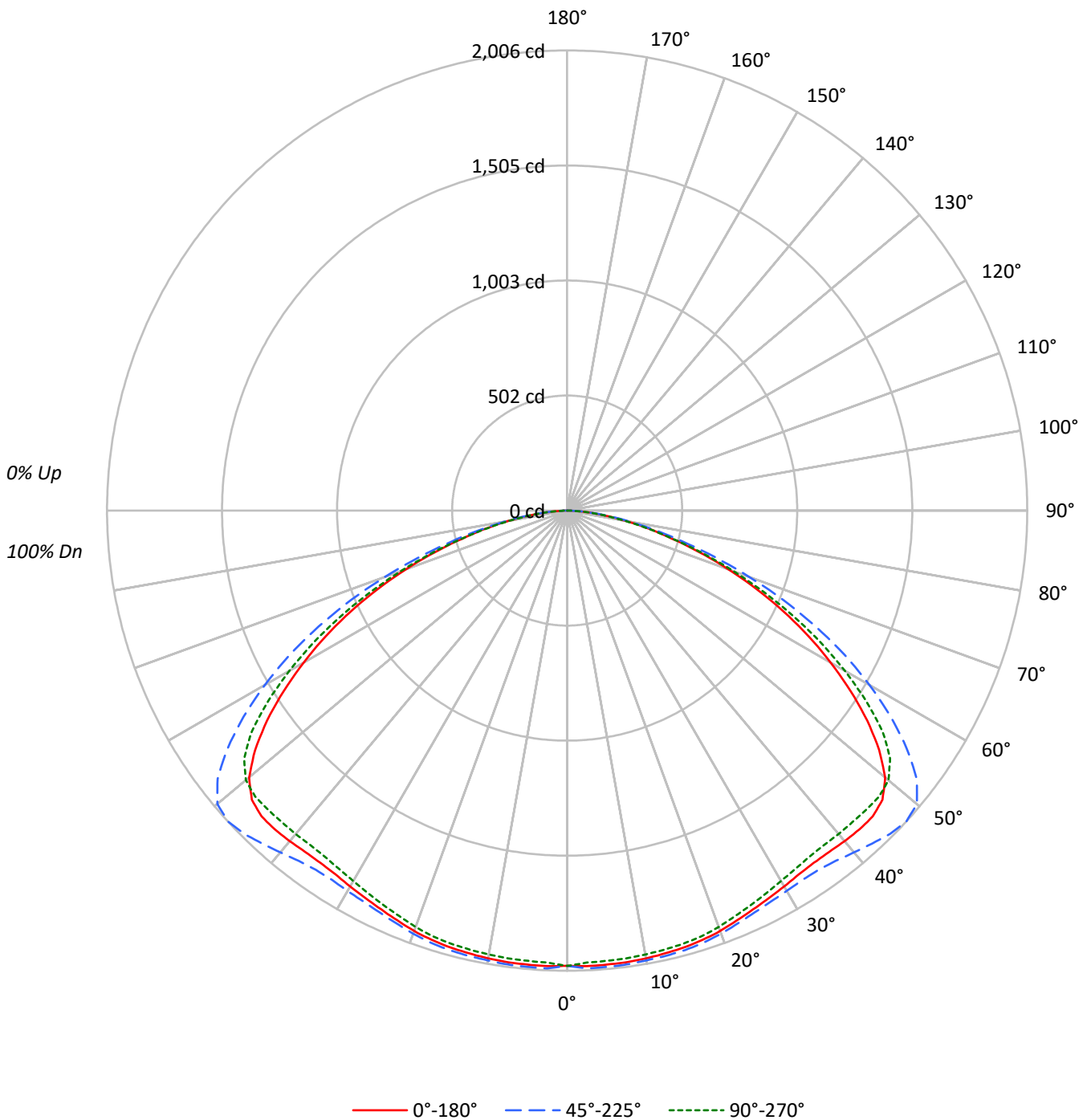
Lumens per Lamp: N/A
Luminaire Lumens: 7600.9 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

Input Watts (W): 88.06
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°	21491	21491	21491
5°	21597	21704	21417
10°	21798	21895	21604
15°	22101	22236	21916
20°	22477	22616	22261
25°	22924	23095	22661
30°	23660	23935	23316
35°	24781	25261	24345
40°	26592	27494	26017
45°	28859	30510	28236
50°	30487	33526	30802
55°	30158	34124	31694
60°	28759	32975	30283
65°	26666	30640	27849
70°	23651	26681	24382
75°	19840	21773	20070
80°	16189	17286	15846
85°	11617	12300	11344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	2.5
10°-20°	556.9	7.3
20°-30°	886.8	11.7
30°-40°	1185.5	15.6
40°-50°	1484.9	19.5
50°-60°	1524.5	20.1
60°-70°	1114.1	14.7
70°-80°	540.8	7.1
80°-90°	118.4	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°	1632.8	21.5
0°-40°	2818.3	37.1
0°-60°	5827.7	76.7
0°-90°	7600.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7600.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1987	1980	1997	1972	1970	190
15°	1971	1967	1984	1960	1955	558
25°	1919	1916	1933	1908	1897	888
35°	1875	1884	1911	1870	1842	1180
45°	1884	1934	1992	1913	1844	1448
55°	1597	1684	1808	1758	1679	1419
65°	1041	1108	1196	1151	1087	1028
75°	474	500	520	500	480	512
85°	94	97	99	95	91	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1984.6	1984.6	1984.6	1984.6	1984.6
2.5°	1987.9	1981.3	1997.8	1973.6	1972.5
5°	1986.8	1980.2	1996.7	1972.5	1970.3
7.5°	1985.7	1980.2	1995.6	1971.4	1969.2
10°	1982.4	1975.8	1991.2	1968.1	1964.8
12.5°	1976.9	1971.4	1987.9	1963.7	1960.4
15°	1971.4	1967.0	1983.5	1960.4	1954.9
17.5°	1962.6	1958.2	1975.8	1951.6	1946.1
20°	1950.5	1946.1	1962.6	1939.5	1931.8
22.5°	1934.0	1929.6	1947.2	1923.0	1913.1
25°	1918.6	1916.4	1932.9	1907.6	1896.6
27.5°	1904.3	1904.3	1921.9	1894.4	1880.1
30°	1892.2	1894.4	1914.2	1883.4	1864.7
32.5°	1880.1	1886.7	1908.7	1873.5	1851.5
35°	1874.6	1884.5	1910.9	1870.2	1841.6
37.5°	1875.7	1893.3	1924.1	1874.6	1838.3
40°	1881.2	1907.6	1945.0	1885.6	1840.5
42.5°	1885.6	1921.9	1968.1	1898.8	1841.6
45°	1884.5	1934.0	1992.3	1913.1	1843.8
47.5°	1864.7	1928.5	2005.5	1924.1	1844.9
50°	1809.7	1886.7	1990.1	1915.3	1828.4
52.5°	1715.1	1800.9	1920.8	1860.3	1774.5
55°	1597.4	1684.3	1807.5	1758.0	1678.8
57.5°	1465.4	1553.4	1672.2	1623.8	1545.7
60°	1327.9	1410.4	1522.6	1474.2	1398.3
62.5°	1185.9	1261.8	1364.2	1318.0	1246.4
65°	1040.7	1107.8	1195.8	1150.7	1086.9
67.5°	893.3	949.4	1019.8	980.2	926.3
70°	747.0	791.0	842.7	810.8	770.1
72.5°	604.0	644.7	675.5	648.0	619.4
75°	474.2	499.5	520.4	499.5	479.7
77.5°	363.0	377.3	388.3	371.8	356.4
80°	259.6	272.8	277.2	265.1	254.1
82.5°	169.4	178.2	181.5	172.7	166.1
85°	93.5	96.8	99.0	94.6	91.3
87.5°	29.7	30.8	33.0	29.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)