

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: P127971

Luminaire Tested: **LSM90W8030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127971
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: LSM90W8030D010TEP
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: 8327.4 lumens
Efficiency: N/A
Efficacy: 85.3 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

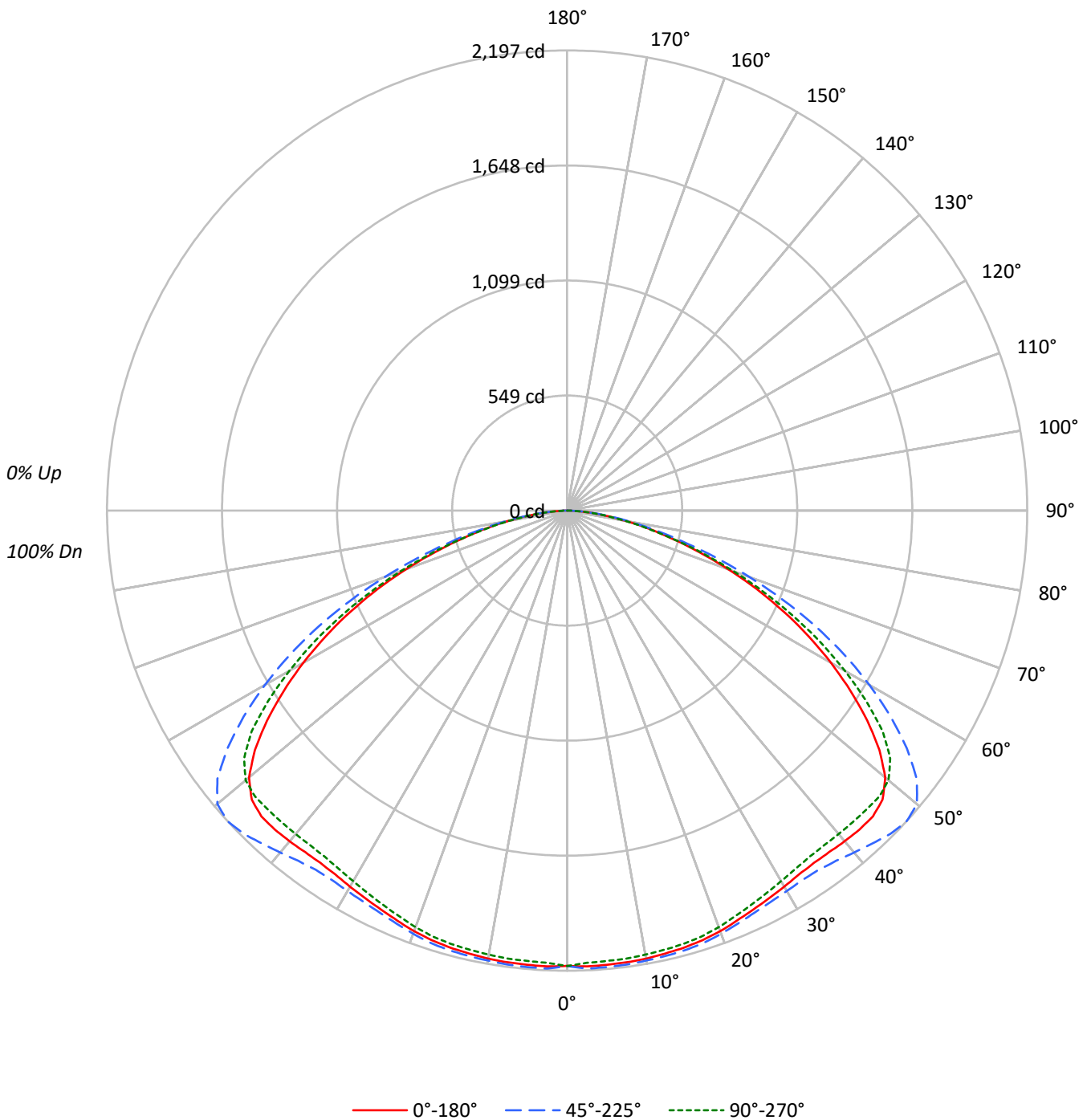
Input Watts (W): 97.58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23545	23545	23545
5°	23661	23779	23464
10°	23882	23987	23669
15°	24213	24362	24011
20°	24625	24778	24390
25°	25115	25303	24827
30°	25922	26223	25544
35°	27150	27676	26671
40°	29134	30122	28503
45°	31617	33426	30934
50°	33401	36730	33747
55°	33041	37387	34723
60°	31507	36127	33177
65°	29215	33568	30512
70°	25911	29229	26712
75°	21735	23852	21986
80°	17735	18939	17361
85°	12723	13481	12425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	2.5
10°-20°	610.1	7.3
20°-30°	971.6	11.7
30°-40°	1298.8	15.6
40°-50°	1626.8	19.5
50°-60°	1670.2	20.1
60°-70°	1220.6	14.7
70°-80°	592.5	7.1
80°-90°	129.7	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°	1788.8	21.5
0°-40°	3087.7	37.1
0°-60°	6384.7	76.7
0°-90°	8327.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8327.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2177	2170	2188	2161	2159	208
15°	2160	2155	2173	2148	2142	611
25°	2102	2100	2118	2090	2078	973
35°	2054	2065	2094	2049	2018	1293
45°	2065	2119	2183	2096	2020	1586
55°	1750	1845	1980	1926	1839	1555
65°	1140	1214	1310	1261	1191	1126
75°	520	547	570	547	526	561
85°	102	106	108	104	100	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2174.3	2174.3	2174.3	2174.3	2174.3
2.5°	2177.9	2170.7	2188.8	2162.3	2161.0
5°	2176.7	2169.5	2187.6	2161.0	2158.6
7.5°	2175.5	2169.5	2186.4	2159.8	2157.4
10°	2171.9	2164.7	2181.5	2156.2	2152.6
12.5°	2165.9	2159.8	2177.9	2151.4	2147.8
15°	2159.8	2155.0	2173.1	2147.8	2141.8
17.5°	2150.2	2145.4	2164.7	2138.1	2132.1
20°	2136.9	2132.1	2150.2	2124.9	2116.5
22.5°	2118.9	2114.0	2133.3	2106.8	2096.0
25°	2102.0	2099.6	2117.7	2089.9	2077.9
27.5°	2086.3	2086.3	2105.6	2075.5	2059.8
30°	2073.1	2075.5	2097.2	2063.4	2042.9
32.5°	2059.8	2067.0	2091.1	2052.6	2028.5
35°	2053.8	2064.6	2093.6	2049.0	2017.6
37.5°	2055.0	2074.3	2108.0	2053.8	2014.0
40°	2061.0	2089.9	2130.9	2065.8	2016.4
42.5°	2065.8	2105.6	2156.2	2080.3	2017.6
45°	2064.6	2118.9	2182.7	2096.0	2020.0
47.5°	2042.9	2112.8	2197.2	2108.0	2021.2
50°	1982.7	2067.0	2180.3	2098.4	2003.2
52.5°	1879.0	1973.0	2104.4	2038.1	1944.1
55°	1750.1	1845.3	1980.3	1926.0	1839.2
57.5°	1605.4	1701.8	1832.0	1779.0	1693.4
60°	1454.8	1545.2	1668.1	1615.1	1531.9
62.5°	1299.3	1382.4	1494.5	1443.9	1365.6
65°	1140.2	1213.7	1310.1	1260.7	1190.8
67.5°	978.7	1040.1	1117.3	1073.9	1014.8
70°	818.4	866.6	923.2	888.3	843.7
72.5°	661.7	706.3	740.0	709.9	678.6
75°	519.5	547.2	570.1	547.2	525.5
77.5°	397.7	413.4	425.5	407.4	390.5
80°	284.4	298.9	303.7	290.5	278.4
82.5°	185.6	195.3	198.9	189.2	182.0
85°	102.4	106.1	108.5	103.7	100.0
87.5°	32.5	33.7	36.2	32.5	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)