

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: P127973

Luminaire Tested: **LSM90W8040D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127973
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: LSM90W8040D010TEP
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: 8857.8 lumens
Efficiency: N/A
Efficacy: 90.8 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

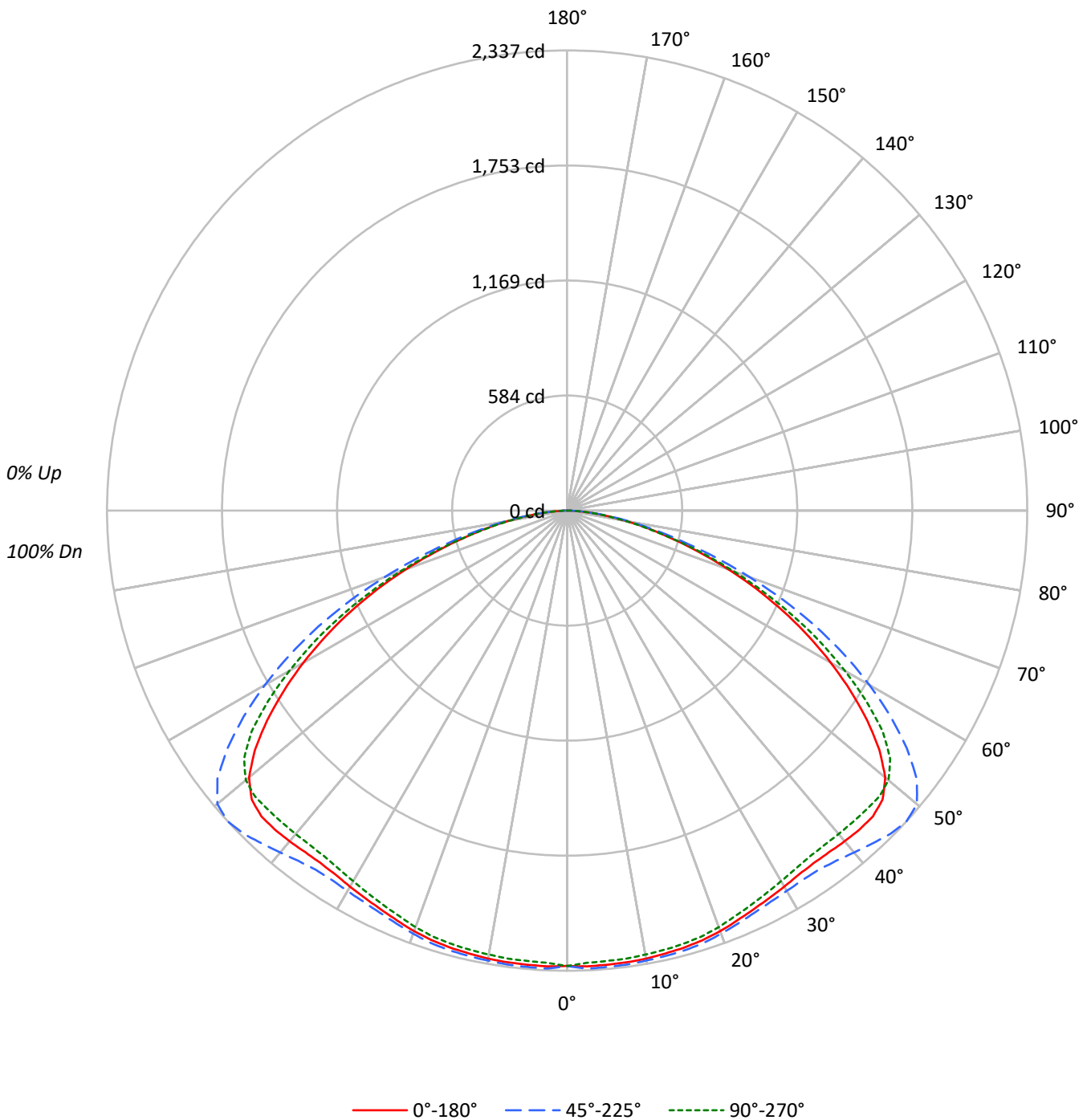
Input Watts (W): 97.58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25045	25045	25045
5°	25167	25293	24959
10°	25402	25516	25177
15°	25755	25913	25540
20°	26193	26356	25942
25°	26715	26913	26408
30°	27572	27892	27171
35°	28879	29438	28370
40°	30990	32040	30319
45°	33631	35556	32905
50°	35527	39070	35895
55°	35144	39767	36935
60°	33513	38427	35291
65°	31075	35708	32454
70°	27561	31091	28413
75°	23120	25371	23388
80°	18870	20148	18465
85°	13543	14338	13220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	2.5
10°-20°	648.9	7.3
20°-30°	1033.5	11.7
30°-40°	1381.5	15.6
40°-50°	1730.4	19.5
50°-60°	1776.6	20.1
60°-70°	1298.3	14.7
70°-80°	630.2	7.1
80°-90°	137.9	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°	1902.8	21.5
0°-40°	3284.3	37.1
0°-60°	6791.3	76.7
0°-90°	8857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8857.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2313	2313	2313	2313	2313	
5°	2315	2308	2327	2299	2296	221
15°	2297	2292	2312	2285	2278	650
25°	2236	2233	2252	2223	2210	1034
35°	2185	2196	2227	2179	2146	1376
45°	2196	2254	2322	2229	2149	1687
55°	1862	1963	2106	2049	1956	1654
65°	1213	1291	1394	1341	1267	1198
75°	553	582	606	582	559	597
85°	109	113	115	110	106	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.8	2312.8	2312.8	2312.8	2312.8
2.5°	2316.6	2308.9	2328.2	2300.0	2298.7
5°	2315.3	2307.6	2326.9	2298.7	2296.1
7.5°	2314.1	2307.6	2325.6	2297.4	2294.8
10°	2310.2	2302.5	2320.5	2293.5	2289.7
12.5°	2303.8	2297.4	2316.6	2288.4	2284.6
15°	2297.4	2292.3	2311.5	2284.6	2278.2
17.5°	2287.1	2282.0	2302.5	2274.3	2267.9
20°	2273.0	2267.9	2287.1	2260.2	2251.2
22.5°	2253.8	2248.7	2269.2	2241.0	2229.4
25°	2235.9	2233.3	2252.5	2223.0	2210.2
27.5°	2219.2	2219.2	2239.7	2207.7	2191.0
30°	2205.1	2207.7	2230.7	2194.8	2173.0
32.5°	2191.0	2198.7	2224.3	2183.3	2157.7
35°	2184.6	2196.1	2226.9	2179.4	2146.1
37.5°	2185.9	2206.4	2242.3	2184.6	2142.3
40°	2192.3	2223.0	2266.6	2197.4	2144.8
42.5°	2197.4	2239.7	2293.5	2212.8	2146.1
45°	2196.1	2253.8	2321.8	2229.4	2148.7
47.5°	2173.0	2247.4	2337.1	2242.3	2150.0
50°	2108.9	2198.7	2319.2	2232.0	2130.7
52.5°	1998.7	2098.7	2238.4	2167.9	2067.9
55°	1861.5	1962.8	2106.4	2048.7	1956.4
57.5°	1707.7	1810.2	1948.7	1892.3	1801.2
60°	1547.4	1643.6	1774.3	1717.9	1629.5
62.5°	1382.0	1470.5	1589.7	1535.9	1452.5
65°	1212.8	1291.0	1393.6	1341.0	1266.6
67.5°	1041.0	1106.4	1188.4	1142.3	1079.5
70°	870.5	921.8	982.0	944.9	897.4
72.5°	703.8	751.3	787.2	755.1	721.8
75°	552.6	582.0	606.4	582.0	559.0
77.5°	423.1	439.7	452.6	433.3	415.4
80°	302.6	317.9	323.1	309.0	296.1
82.5°	197.4	207.7	211.5	201.3	193.6
85°	109.0	112.8	115.4	110.3	106.4
87.5°	34.6	35.9	38.5	34.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)