

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: P127968

Luminaire Tested: **LSM80W9035D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127968
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: LSM80W9035D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 3500K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6328.2 lumens
Efficiency: N/A
Efficacy: 71.9 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

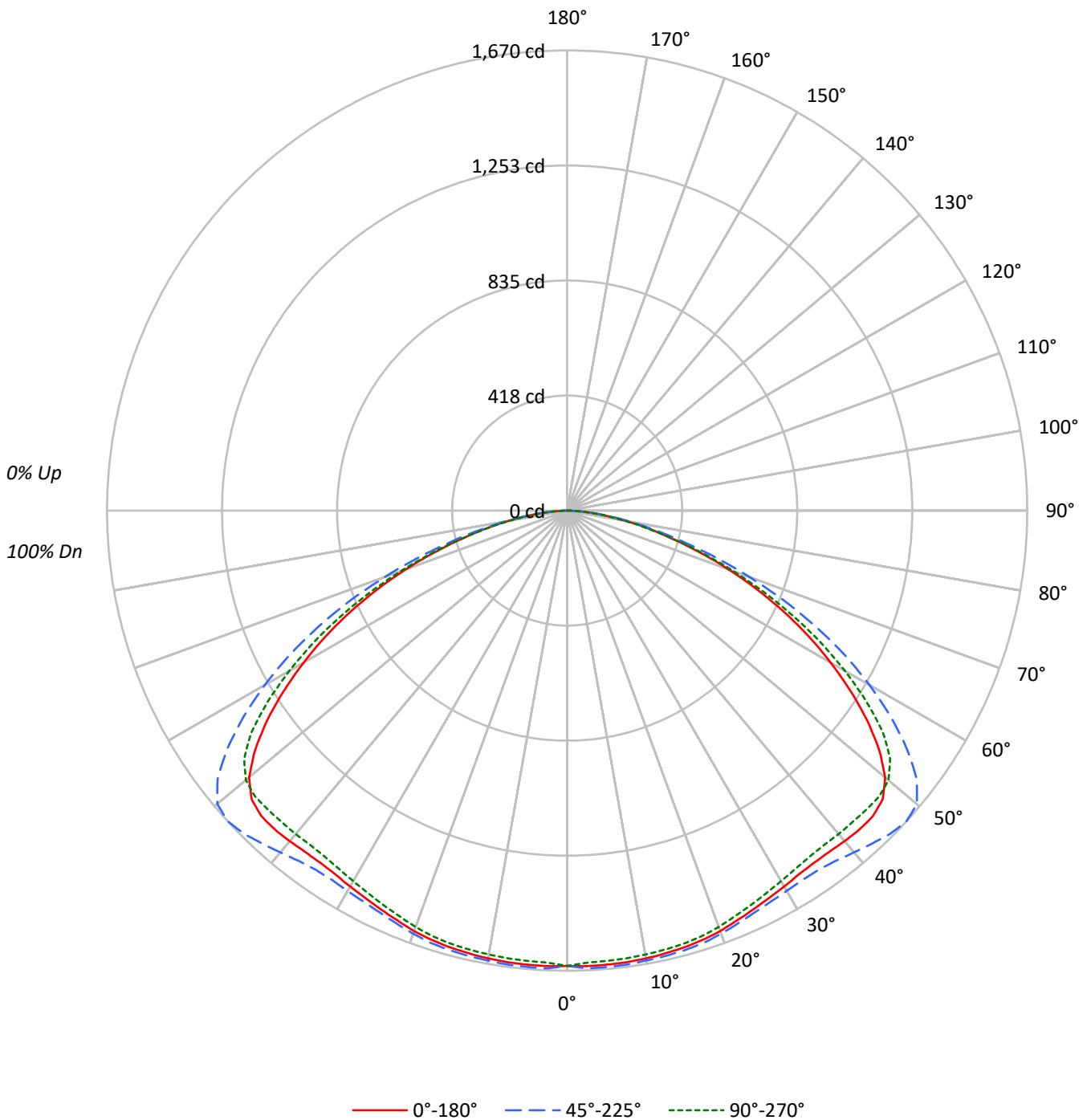
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17892	17892	17892
5°	17980	18070	17831
10°	18148	18229	17987
15°	18400	18513	18246
20°	18713	18830	18533
25°	19086	19228	18866
30°	19699	19927	19412
35°	20631	21031	20268
40°	22140	22890	21660
45°	24028	25401	23509
50°	25383	27913	25645
55°	25107	28409	26387
60°	23942	27453	25211
65°	22202	25510	23186
70°	19690	22213	20298
75°	16518	18125	16706
80°	13482	14393	13195
85°	9679	10238	9443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	2.5
10°-20°	463.6	7.3
20°-30°	738.3	11.7
30°-40°	987.0	15.6
40°-50°	1236.2	19.5
50°-60°	1269.3	20.1
60°-70°	927.6	14.7
70°-80°	450.3	7.1
80°-90°	98.5	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°	1359.4	21.5
0°-40°	2346.4	37.1
0°-60°	4851.9	76.7
0°-90°	6328.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6328.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1654	1649	1662	1642	1640	158
15°	1641	1638	1651	1632	1628	464
25°	1597	1596	1609	1588	1579	739
35°	1561	1569	1591	1557	1533	983
45°	1569	1610	1659	1593	1535	1205
55°	1330	1402	1505	1464	1398	1182
65°	866	922	996	958	905	856
75°	395	416	433	416	399	427
85°	78	81	82	79	76	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.3	1652.3	1652.3	1652.3	1652.3
2.5°	1655.1	1649.6	1663.3	1643.2	1642.2
5°	1654.1	1648.6	1662.4	1642.2	1640.4
7.5°	1653.2	1648.6	1661.5	1641.3	1639.5
10°	1650.5	1645.0	1657.8	1638.6	1635.8
12.5°	1645.9	1641.3	1655.1	1634.9	1632.2
15°	1641.3	1637.7	1651.4	1632.2	1627.6
17.5°	1634.0	1630.3	1645.0	1624.8	1620.3
20°	1623.9	1620.3	1634.0	1614.8	1608.3
22.5°	1610.2	1606.5	1621.2	1601.0	1592.8
25°	1597.4	1595.5	1609.3	1588.2	1579.0
27.5°	1585.4	1585.4	1600.1	1577.2	1565.3
30°	1575.4	1577.2	1593.7	1568.0	1552.5
32.5°	1565.3	1570.8	1589.1	1559.8	1541.5
35°	1560.7	1569.0	1590.9	1557.1	1533.2
37.5°	1561.6	1576.3	1601.9	1560.7	1530.5
40°	1566.2	1588.2	1619.3	1569.9	1532.3
42.5°	1569.9	1600.1	1638.6	1580.9	1533.2
45°	1569.0	1610.2	1658.7	1592.8	1535.1
47.5°	1552.5	1605.6	1669.7	1601.9	1536.0
50°	1506.7	1570.8	1656.9	1594.6	1522.3
52.5°	1427.9	1499.4	1599.2	1548.8	1477.4
55°	1329.9	1402.3	1504.8	1463.6	1397.7
57.5°	1220.0	1293.3	1392.2	1351.9	1286.9
60°	1105.5	1174.2	1267.6	1227.3	1164.1
62.5°	987.4	1050.6	1135.7	1097.3	1037.7
65°	866.5	922.3	995.6	958.0	904.9
67.5°	743.7	790.4	849.1	816.1	771.2
70°	621.9	658.5	701.6	675.0	641.1
72.5°	502.8	536.7	562.4	539.5	515.7
75°	394.8	415.8	433.2	415.8	399.3
77.5°	302.3	314.2	323.3	309.6	296.8
80°	216.2	227.1	230.8	220.7	211.6
82.5°	141.1	148.4	151.1	143.8	138.3
85°	77.9	80.6	82.4	78.8	76.0
87.5°	24.7	25.6	27.5	24.7	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)