

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: P127972

Luminaire Tested: **LSM90W8035D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127972
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: LSM90W8035D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 3500K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8826.7 lumens
Efficiency: N/A
Efficacy: 90.5 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

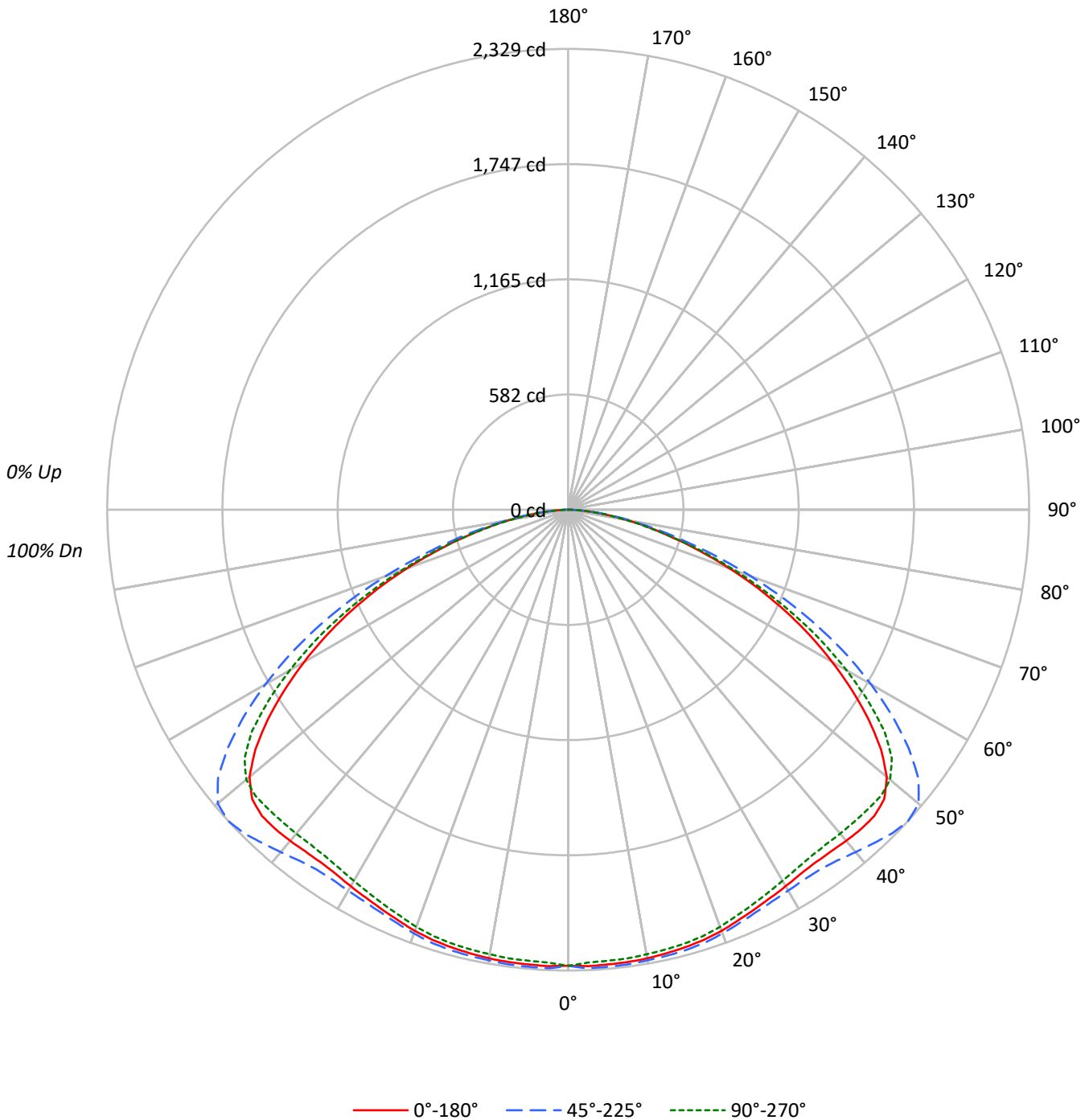
Input Watts (W): 97.58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24957	24957	24957
5°	25079	25204	24872
10°	25313	25425	25089
15°	25665	25823	25450
20°	26102	26264	25852
25°	26620	26819	26316
30°	27476	27795	27076
35°	28777	29335	28271
40°	30881	31929	30213
45°	33513	35431	32790
50°	35403	38934	35770
55°	35021	39627	36805
60°	33396	38292	35165
65°	30965	35582	32341
70°	27463	30983	28314
75°	23036	25283	23304
80°	18801	20074	18402
85°	13493	14288	13170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	2.5
10°-20°	646.7	7.3
20°-30°	1029.8	11.7
30°-40°	1376.7	15.6
40°-50°	1724.3	19.5
50°-60°	1770.4	20.1
60°-70°	1293.8	14.7
70°-80°	628.0	7.1
80°-90°	137.5	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°	1896.1	21.5
0°-40°	3272.8	37.1
0°-60°	6767.5	76.7
0°-90°	8826.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8826.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2307	2300	2319	2291	2288	220
15°	2289	2284	2303	2277	2270	648
25°	2228	2226	2245	2215	2202	1031
35°	2177	2188	2219	2172	2139	1371
45°	2188	2246	2314	2222	2141	1681
55°	1855	1956	2099	2042	1950	1648
65°	1208	1286	1389	1336	1262	1194
75°	551	580	604	580	557	595
85°	109	112	115	110	106	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2304.7	2304.7	2304.7	2304.7	2304.7
2.5°	2308.5	2300.8	2320.0	2291.9	2290.6
5°	2307.2	2299.6	2318.7	2290.6	2288.1
7.5°	2306.0	2299.6	2317.5	2289.3	2286.8
10°	2302.1	2294.5	2312.3	2285.5	2281.7
12.5°	2295.7	2289.3	2308.5	2280.4	2276.6
15°	2289.3	2284.2	2303.4	2276.6	2270.2
17.5°	2279.1	2274.0	2294.5	2266.3	2260.0
20°	2265.1	2260.0	2279.1	2252.3	2243.4
22.5°	2245.9	2240.8	2261.2	2233.1	2221.6
25°	2228.0	2225.5	2244.6	2215.2	2202.5
27.5°	2211.4	2211.4	2231.9	2199.9	2183.3
30°	2197.4	2199.9	2222.9	2187.1	2165.4
32.5°	2183.3	2191.0	2216.5	2175.6	2150.1
35°	2176.9	2188.4	2219.1	2171.8	2138.6
37.5°	2178.2	2198.6	2234.4	2176.9	2134.8
40°	2184.6	2215.2	2258.7	2189.7	2137.3
42.5°	2189.7	2231.9	2285.5	2205.0	2138.6
45°	2188.4	2245.9	2313.6	2221.6	2141.2
47.5°	2165.4	2239.5	2328.9	2234.4	2142.4
50°	2101.5	2191.0	2311.1	2224.2	2123.3
52.5°	1991.7	2091.3	2230.6	2160.3	2060.7
55°	1855.0	1955.9	2099.0	2041.5	1949.5
57.5°	1701.7	1803.9	1941.9	1885.6	1794.9
60°	1542.0	1637.8	1768.1	1711.9	1623.7
62.5°	1377.2	1465.3	1584.1	1530.5	1447.4
65°	1208.5	1286.5	1388.7	1336.3	1262.2
67.5°	1037.4	1102.5	1184.3	1138.3	1075.7
70°	867.4	918.5	978.6	941.5	894.3
72.5°	701.4	748.6	784.4	752.5	719.3
75°	550.6	580.0	604.3	580.0	557.0
77.5°	421.6	438.2	451.0	431.8	413.9
80°	301.5	316.8	321.9	307.9	295.1
82.5°	196.7	207.0	210.8	200.6	192.9
85°	108.6	112.4	115.0	109.9	106.0
87.5°	34.5	35.8	38.3	34.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)