

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: CORELITE

Report Number: P506860

Luminaire Tested: **24PD-80-PW1-L940**

Issue Date: 3/26/2021



**Test Information**

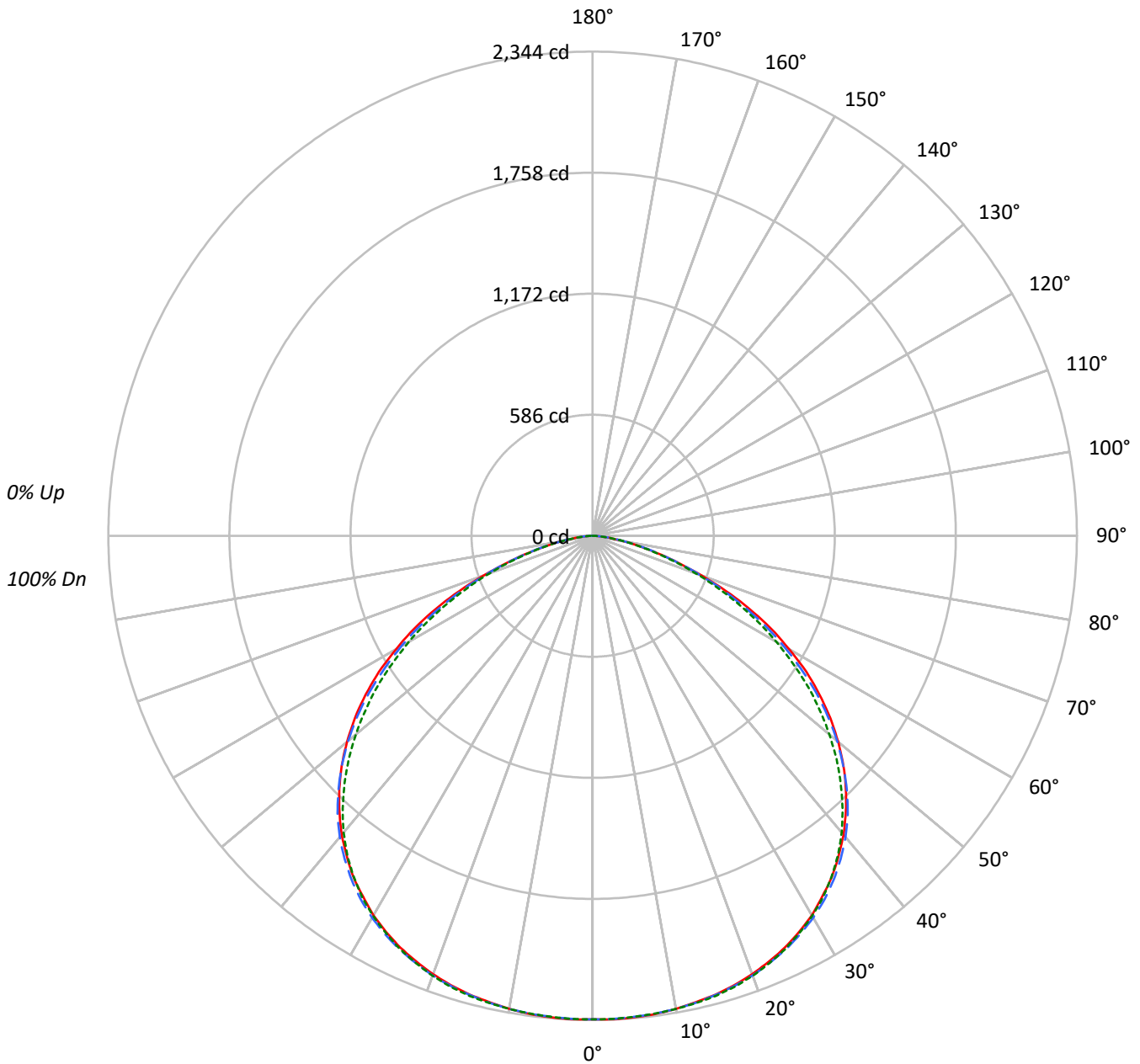
Test Method: LM-79-08  
Report Number: P506860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-80-PW1-L940  
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6865.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3150	3150	3150
5°	3161	3157	3157
10°	3177	3177	3178
15°	3203	3205	3212
20°	3233	3243	3245
25°	3267	3281	3276
30°	3296	3317	3302
35°	3315	3341	3312
40°	3319	3344	3293
45°	3299	3312	3232
50°	3248	3233	3131
55°	3144	3094	2983
60°	2953	2877	2765
65°	2663	2565	2461
70°	2196	2162	2083
75°	1678	1695	1627
80°	1165	1200	1175
85°	696	727	706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.8	3.2
10°-20°	650.8	9.5
20°-30°	1017.8	14.8
30°-40°	1266.0	18.4
40°-50°	1330.5	19.4
50°-60°	1167.8	17.0
60°-70°	795.3	11.6
70°-80°	350.8	5.1
80°-90°	63.2	0.9
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°	1891.4	27.6
0°-40°	3157.4	46.0
0°-60°	5655.7	82.4
0°-90°	6865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2340	2340	2338	2335	2338	223
15°	2299	2302	2301	2301	2306	650
25°	2200	2206	2210	2209	2207	1015
35°	2018	2027	2034	2024	2016	1261
45°	1734	1745	1740	1712	1699	1335
55°	1340	1335	1319	1284	1272	1195
65°	836	816	806	788	773	825
75°	323	325	326	320	313	353
85°	45	47	47	46	46	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2341.0	2341.0	2341.0	2341.0	2341.0
2.5°	2343.6	2342.3	2341.0	2339.0	2341.0
5°	2340.3	2339.7	2337.7	2335.1	2337.7
7.5°	2335.1	2335.1	2333.1	2331.2	2332.5
10°	2325.3	2327.3	2325.3	2323.3	2326.0
12.5°	2312.2	2315.5	2314.8	2314.8	2316.8
15°	2299.2	2301.8	2301.1	2301.1	2305.7
17.5°	2280.9	2284.1	2284.8	2286.1	2288.7
20°	2258.0	2262.6	2265.2	2264.5	2266.5
22.5°	2231.2	2236.4	2238.4	2239.7	2238.4
25°	2200.5	2206.4	2210.3	2209.0	2207.0
27.5°	2163.2	2169.8	2175.0	2171.7	2167.8
30°	2121.4	2127.3	2135.1	2129.2	2125.3
32.5°	2069.8	2080.9	2088.1	2080.9	2075.0
35°	2018.1	2027.3	2033.8	2024.0	2016.2
37.5°	1955.4	1966.5	1972.4	1958.7	1950.2
40°	1889.4	1900.5	1903.8	1886.1	1875.0
42.5°	1814.2	1826.6	1828.0	1803.1	1790.7
45°	1733.8	1745.0	1740.4	1711.6	1698.6
47.5°	1646.9	1654.8	1645.0	1615.6	1601.2
50°	1551.5	1556.1	1544.3	1509.7	1496.0
52.5°	1450.9	1450.2	1435.2	1400.5	1385.5
55°	1340.4	1335.2	1318.8	1284.2	1271.8
57.5°	1227.3	1211.0	1193.4	1164.0	1147.6
60°	1097.3	1084.9	1069.2	1039.8	1027.4
62.5°	974.4	952.2	939.1	913.0	901.9
65°	836.5	816.3	805.8	788.2	773.1
67.5°	698.0	682.3	675.1	662.7	649.0
70°	558.1	553.5	549.6	537.9	529.4
72.5°	434.6	433.3	432.6	426.1	417.6
75°	322.8	324.8	326.1	320.2	313.0
77.5°	230.0	233.3	232.7	229.4	227.4
80°	150.3	152.9	154.9	151.6	151.6
82.5°	90.8	93.5	92.8	94.1	91.5
85°	45.1	47.1	47.1	46.4	45.7
87.5°	16.3	17.0	16.3	17.0	16.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)