

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: P506909

Luminaire Tested: **24PD-90-PW1-L840**

Issue Date: 3/26/2021



**Test Information**

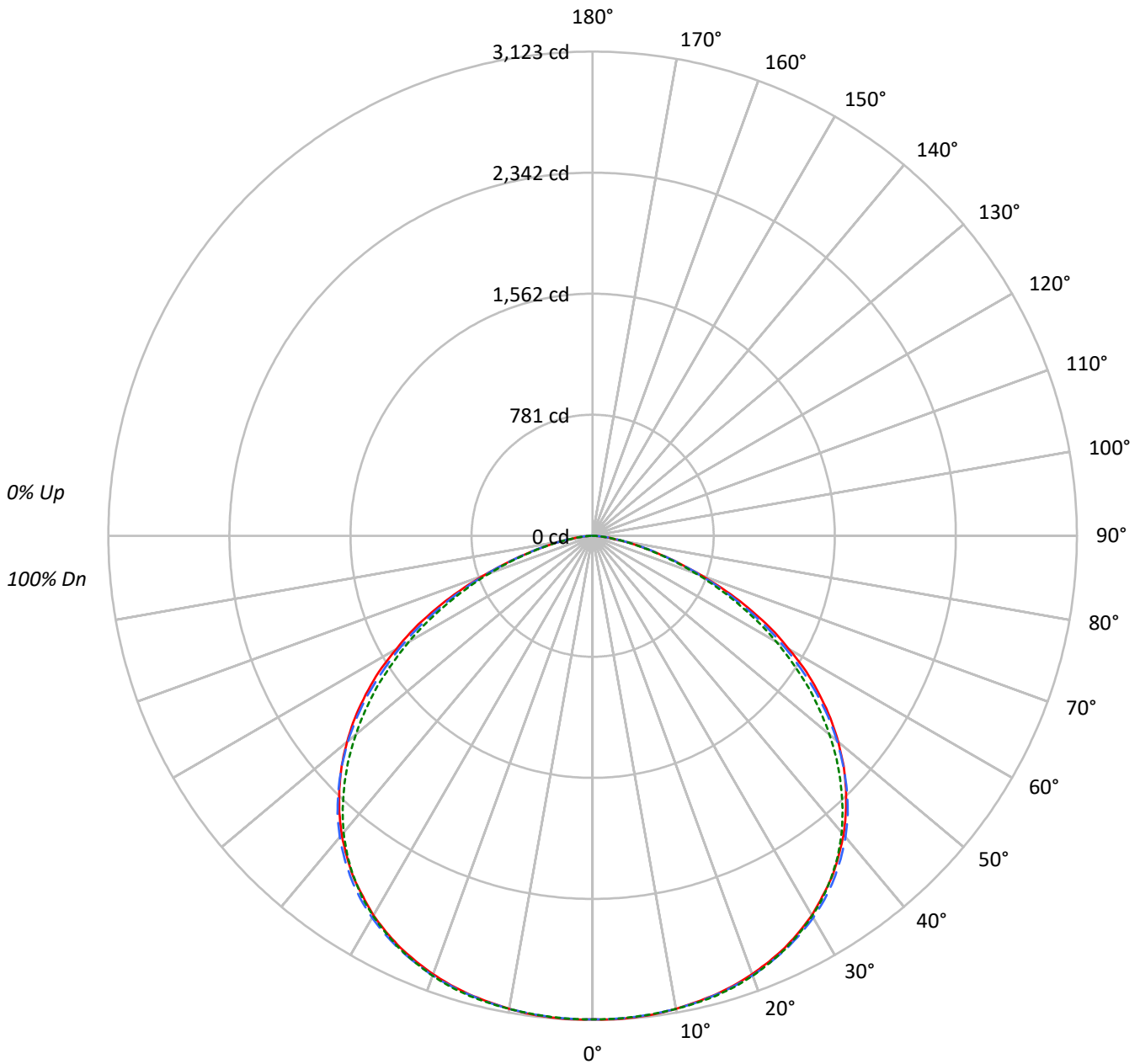
Test Method: LM-79-08  
Report Number: P506909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-90-PW1-L840  
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9147.2 lumens  
Efficiency: N/A  
Efficacy: 131.2 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): 69.7  
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

TEST NUMBER: P506909  
CATALOG NUMBER: 24PD-90-PW1-L840

### 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	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°	4197	4197	4197
5°	4212	4207	4207
10°	4233	4233	4234
15°	4267	4271	4279
20°	4308	4322	4324
25°	4353	4372	4366
30°	4392	4420	4400
35°	4417	4451	4413
40°	4422	4455	4388
45°	4396	4413	4306
50°	4327	4307	4172
55°	4190	4122	3975
60°	3934	3834	3684
65°	3549	3418	3280
70°	2926	2881	2775
75°	2236	2259	2168
80°	1552	1599	1565
85°	928	968	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.9	3.2
10°-20°	867.2	9.5
20°-30°	1356.2	14.8
30°-40°	1686.9	18.4
40°-50°	1772.8	19.4
50°-60°	1556.1	17.0
60°-70°	1059.6	11.6
70°-80°	467.4	5.1
80°-90°	84.2	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°	2520.2	27.6
0°-40°	4207.1	46.0
0°-60°	7536.0	82.4
0°-90°	9147.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9147.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3119	3119	3119	3119	3119	
5°	3118	3118	3115	3111	3115	297
15°	3064	3067	3066	3066	3072	866
25°	2932	2940	2945	2943	2941	1352
35°	2689	2701	2710	2697	2686	1681
45°	2310	2325	2319	2281	2263	1779
55°	1786	1779	1757	1711	1695	1592
65°	1115	1088	1074	1050	1030	1099
75°	430	433	434	427	417	471
85°	60	63	63	62	61	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3119.3	3119.3	3119.3	3119.3	3119.3
2.5°	3122.7	3121.0	3119.3	3116.6	3119.3
5°	3118.4	3117.5	3114.9	3111.4	3114.9
7.5°	3111.4	3111.4	3108.8	3106.2	3107.9
10°	3098.4	3101.0	3098.4	3095.7	3099.2
12.5°	3080.9	3085.3	3084.4	3084.4	3087.0
15°	3063.5	3067.0	3066.1	3066.1	3072.2
17.5°	3039.1	3043.5	3044.4	3046.1	3049.6
20°	3008.7	3014.8	3018.2	3017.4	3020.0
22.5°	2973.0	2979.9	2982.5	2984.3	2982.5
25°	2932.0	2939.9	2945.1	2943.3	2940.7
27.5°	2882.4	2891.1	2898.1	2893.7	2888.5
30°	2826.7	2834.5	2844.9	2837.1	2831.9
32.5°	2757.9	2772.7	2782.2	2772.7	2764.8
35°	2689.1	2701.3	2710.0	2696.9	2686.5
37.5°	2605.5	2620.3	2628.1	2609.8	2598.5
40°	2517.5	2532.3	2536.7	2513.2	2498.4
42.5°	2417.4	2433.9	2435.7	2402.6	2386.0
45°	2310.3	2325.1	2319.0	2280.7	2263.2
47.5°	2194.4	2204.9	2191.8	2152.7	2133.5
50°	2067.3	2073.4	2057.7	2011.6	1993.3
52.5°	1933.2	1932.3	1912.3	1866.2	1846.1
55°	1786.0	1779.1	1757.3	1711.1	1694.6
57.5°	1635.4	1613.6	1590.1	1550.9	1529.1
60°	1462.1	1445.6	1424.7	1385.5	1368.9
62.5°	1298.4	1268.8	1251.4	1216.5	1201.7
65°	1114.6	1087.6	1073.7	1050.2	1030.2
67.5°	930.0	909.1	899.6	883.0	864.7
70°	743.7	737.6	732.4	716.7	705.4
72.5°	579.1	577.3	576.5	567.8	556.4
75°	430.2	432.8	434.5	426.7	417.1
77.5°	306.5	310.9	310.0	305.7	303.0
80°	200.3	203.8	206.4	202.0	202.0
82.5°	121.0	124.5	123.7	125.4	121.9
85°	60.1	62.7	62.7	61.8	61.0
87.5°	21.8	22.6	21.8	22.6	21.8
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)