

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: P506896

Luminaire Tested: **24PD-90-PL1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-90-PL1-L940
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

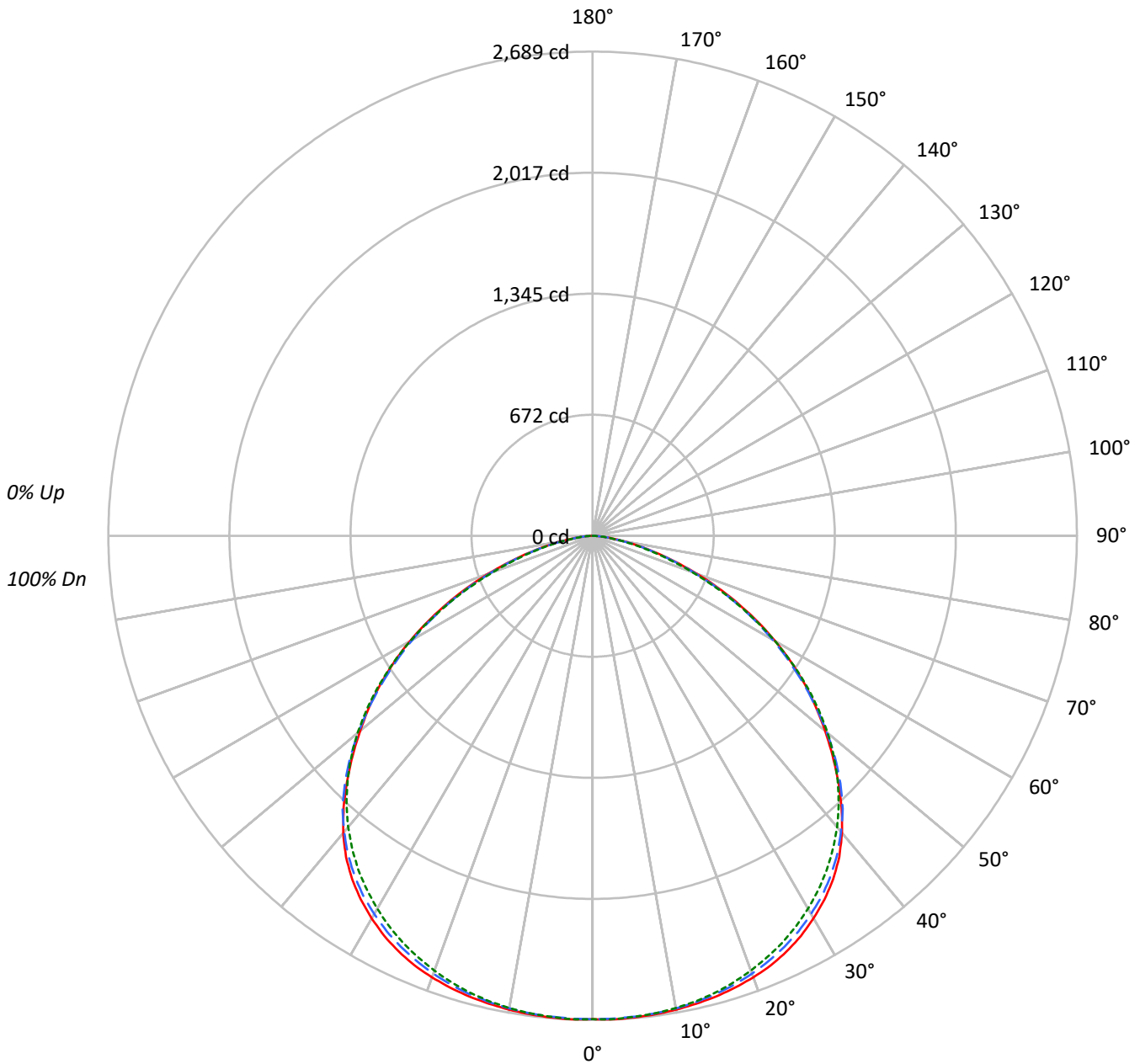
Lumens per Lamp: N/A
Luminaire Lumens: 7702.6 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
Input Voltage (V): NR
Input Current (A_{in}): 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	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3613	3613	3613
5°	3626	3620	3622
10°	3651	3641	3638
15°	3690	3672	3660
20°	3736	3706	3679
25°	3782	3740	3701
30°	3812	3768	3716
35°	3825	3786	3723
40°	3784	3769	3709
45°	3668	3702	3661
50°	3526	3552	3564
55°	3373	3348	3398
60°	3156	3104	3144
65°	2839	2783	2781
70°	2418	2363	2308
75°	1903	1862	1785
80°	1361	1322	1247
85°	806	795	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.3
10°-20°	745.3	9.7
20°-30°	1161.8	15.1
30°-40°	1437.6	18.7
40°-50°	1490.3	19.3
50°-60°	1283.2	16.7
60°-70°	870.6	11.3
70°-80°	388.5	5.0
80°-90°	69.9	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°	2162.5	28.1
0°-40°	3600.2	46.7
0°-60°	6373.6	82.7
0°-90°	7702.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7702.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2685	2685	2685	2685	2685	
5°	2685	2681	2681	2681	2681	256
15°	2649	2642	2636	2630	2628	749
25°	2548	2538	2519	2500	2493	1175
35°	2328	2322	2305	2280	2267	1453
45°	1928	1937	1945	1938	1924	1486
55°	1438	1439	1427	1443	1448	1283
65°	892	896	874	865	873	882
75°	366	369	358	350	343	397
85°	52	53	52	52	48	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2685.0	2685.0	2685.0	2685.0	2685.0
2.5°	2688.7	2682.8	2683.6	2684.3	2687.3
5°	2685.0	2681.4	2680.6	2680.6	2681.4
7.5°	2680.6	2676.2	2675.5	2674.8	2674.8
10°	2672.6	2668.1	2665.2	2663.7	2663.0
12.5°	2661.5	2656.4	2652.7	2649.8	2647.6
15°	2649.0	2641.7	2635.8	2629.9	2627.7
17.5°	2631.4	2624.8	2614.5	2604.9	2601.2
20°	2609.3	2602.7	2588.0	2574.8	2569.6
22.5°	2583.6	2574.0	2555.6	2540.9	2533.6
25°	2547.6	2538.0	2518.9	2500.5	2493.2
27.5°	2505.7	2496.8	2476.2	2454.2	2445.4
30°	2453.5	2447.6	2425.5	2401.3	2391.7
32.5°	2395.4	2389.5	2370.4	2343.2	2332.1
35°	2328.5	2321.8	2304.9	2279.9	2266.7
37.5°	2249.1	2246.9	2230.7	2204.9	2192.4
40°	2154.2	2158.6	2146.1	2124.1	2111.6
42.5°	2046.1	2055.7	2055.7	2035.1	2022.6
45°	1927.8	1936.6	1945.4	1938.1	1924.1
47.5°	1806.5	1816.0	1826.3	1829.2	1817.5
50°	1684.4	1690.3	1696.9	1710.1	1702.8
52.5°	1563.1	1565.3	1563.1	1580.7	1579.3
55°	1438.1	1438.8	1427.1	1443.3	1448.4
57.5°	1308.0	1310.2	1291.1	1299.9	1310.9
60°	1172.7	1174.9	1153.6	1155.0	1168.3
62.5°	1033.0	1035.9	1014.6	1009.5	1021.2
65°	891.8	895.5	874.2	864.6	873.4
67.5°	751.4	755.8	736.0	724.2	726.4
70°	614.6	618.3	600.7	589.7	586.7
72.5°	484.5	488.2	474.2	463.2	458.0
75°	366.1	369.1	358.1	350.0	343.4
77.5°	263.2	265.4	256.6	250.7	244.1
80°	175.7	176.5	170.6	166.9	161.0
82.5°	105.1	105.9	102.2	100.7	96.3
85°	52.2	52.9	51.5	51.5	47.8
87.5°	18.4	17.6	18.4	18.4	16.2
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)