

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: P506837

Luminaire Tested: **24PD-80-PL1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506837
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-80-PL1-L840
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

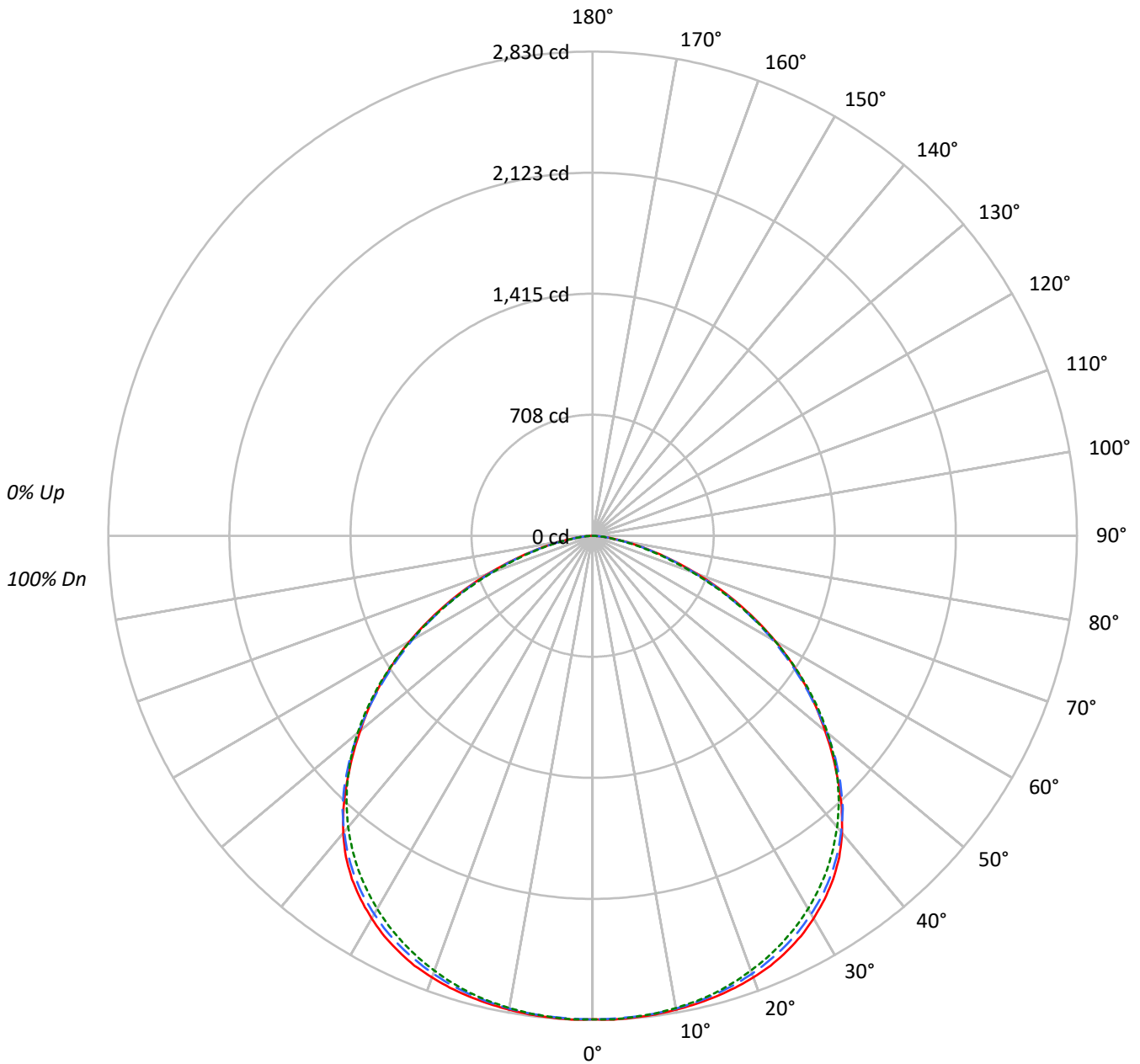
Lumens per Lamp: N/A
Luminaire Lumens: 8108.5 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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°	3803	3803	3803
5°	3818	3811	3812
10°	3844	3833	3830
15°	3884	3865	3853
20°	3933	3901	3873
25°	3981	3937	3896
30°	4013	3967	3912
35°	4026	3985	3919
40°	3983	3968	3904
45°	3862	3897	3854
50°	3712	3739	3752
55°	3551	3524	3577
60°	3322	3268	3309
65°	2989	2930	2927
70°	2545	2487	2430
75°	2004	1959	1879
80°	1433	1392	1313
85°	849	837	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	3.3
10°-20°	784.6	9.7
20°-30°	1223.0	15.1
30°-40°	1513.4	18.7
40°-50°	1568.8	19.3
50°-60°	1350.8	16.7
60°-70°	916.5	11.3
70°-80°	408.9	5.0
80°-90°	73.6	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°	2276.5	28.1
0°-40°	3789.9	46.7
0°-60°	6709.5	82.7
0°-90°	8108.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8108.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2827	2827	2827	2827	2827	
5°	2827	2823	2822	2822	2823	269
15°	2789	2781	2775	2768	2766	789
25°	2682	2672	2652	2632	2624	1236
35°	2451	2444	2426	2400	2386	1530
45°	2029	2039	2048	2040	2026	1564
55°	1514	1515	1502	1519	1525	1350
65°	939	943	920	910	920	929
75°	385	388	377	368	361	418
85°	55	56	54	54	50	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2826.6	2826.6	2826.6	2826.6	2826.6
2.5°	2830.4	2824.2	2825.0	2825.8	2828.9
5°	2826.6	2822.7	2821.9	2821.9	2822.7
7.5°	2821.9	2817.3	2816.5	2815.7	2815.7
10°	2813.4	2808.8	2805.7	2804.1	2803.3
12.5°	2801.8	2796.4	2792.5	2789.4	2787.1
15°	2788.6	2780.9	2774.7	2768.5	2766.2
17.5°	2770.1	2763.1	2752.3	2742.2	2738.3
20°	2746.8	2739.9	2724.4	2710.5	2705.0
22.5°	2719.7	2709.7	2690.3	2674.9	2667.1
25°	2681.8	2671.8	2651.6	2632.3	2624.5
27.5°	2637.7	2628.4	2606.7	2583.5	2574.2
30°	2582.7	2576.6	2553.3	2527.8	2517.7
32.5°	2521.6	2515.4	2495.3	2466.7	2455.0
35°	2451.2	2444.2	2426.4	2400.1	2386.2
37.5°	2367.6	2365.3	2348.2	2321.1	2308.0
40°	2267.7	2272.4	2259.2	2236.0	2222.9
42.5°	2154.0	2164.0	2164.0	2142.4	2129.2
45°	2029.4	2038.6	2047.9	2040.2	2025.5
47.5°	1901.7	1911.7	1922.6	1925.6	1913.3
50°	1773.2	1779.4	1786.3	1800.3	1792.5
52.5°	1645.5	1647.8	1645.5	1664.0	1662.5
55°	1513.9	1514.7	1502.3	1519.3	1524.7
57.5°	1376.9	1379.2	1359.1	1368.4	1380.0
60°	1234.5	1236.8	1214.4	1215.9	1229.8
62.5°	1087.4	1090.5	1068.1	1062.7	1075.0
65°	938.8	942.7	920.3	910.2	919.5
67.5°	791.0	795.6	774.7	762.4	764.7
70°	647.0	650.9	632.3	620.7	617.6
72.5°	510.0	513.9	499.2	487.6	482.2
75°	385.4	388.5	376.9	368.4	361.4
77.5°	277.1	279.4	270.1	263.9	257.0
80°	185.0	185.8	179.6	175.7	169.5
82.5°	110.7	111.5	107.6	106.0	101.4
85°	55.0	55.7	54.2	54.2	50.3
87.5°	19.3	18.6	19.3	19.3	17.0
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)