

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: P506846

Luminaire Tested: **24PD-80-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-80-PR1-L840
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

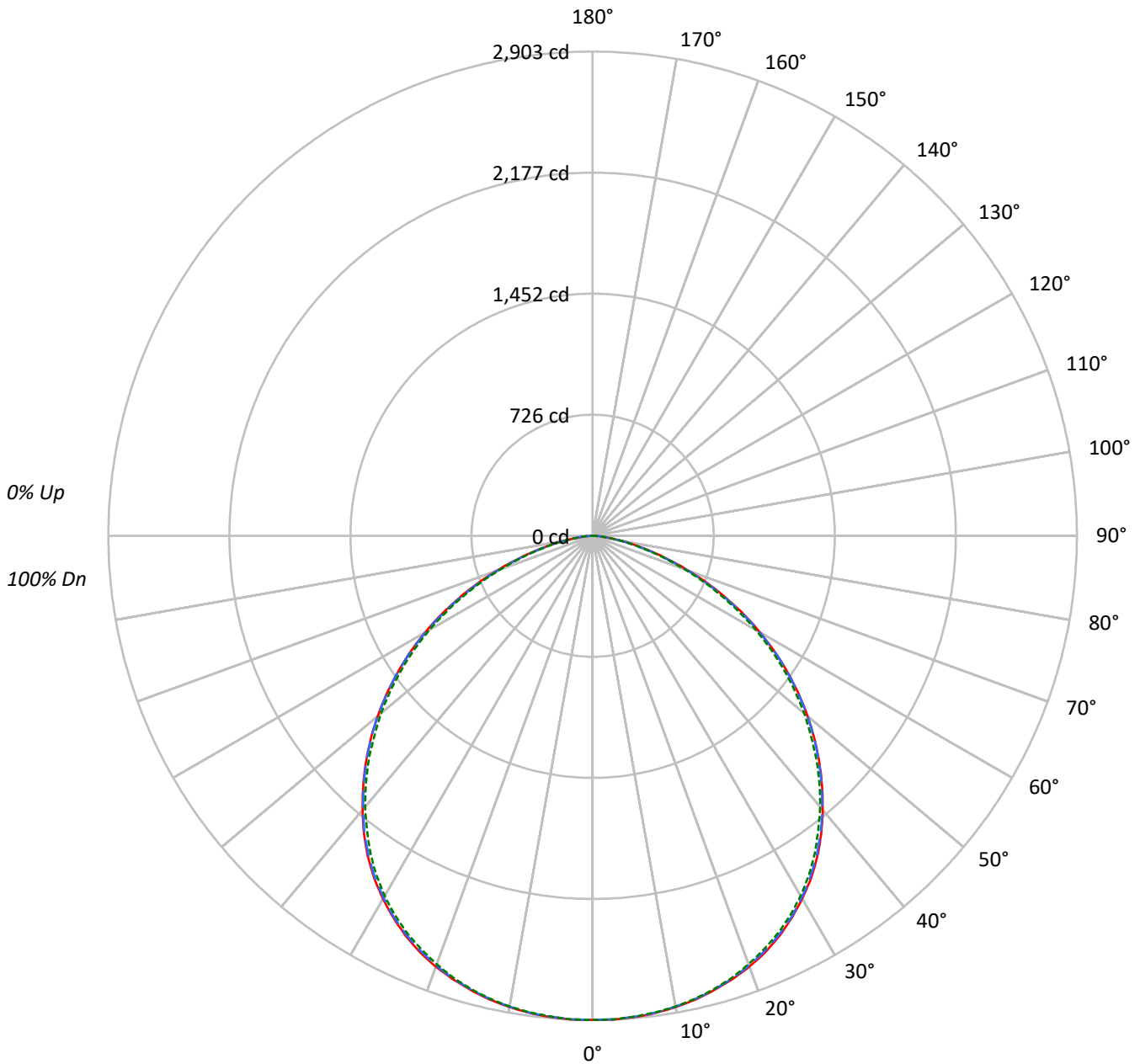
Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40																			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3905	3905	3905
5°	3912	3910	3908
10°	3920	3916	3915
15°	3928	3923	3919
20°	3936	3926	3914
25°	3932	3921	3904
30°	3905	3895	3874
35°	3858	3845	3814
40°	3768	3759	3726
45°	3657	3651	3610
50°	3521	3520	3466
55°	3348	3341	3278
60°	3120	3108	3038
65°	2811	2778	2713
70°	2400	2365	2306
75°	1898	1855	1812
80°	1347	1313	1272
85°	810	787	764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	3.5
10°-20°	795.4	10.2
20°-30°	1215.9	15.6
30°-40°	1460.1	18.7
40°-50°	1475.6	18.9
50°-60°	1267.9	16.2
60°-70°	864.9	11.1
70°-80°	388.9	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°	2286.7	29.3
0°-40°	3746.9	48.0
0°-60°	6490.3	83.1
0°-90°	7814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2896	2896	2895	2894	2894	276
15°	2820	2819	2816	2814	2813	797
25°	2648	2648	2641	2632	2630	1220
35°	2348	2348	2341	2327	2322	1466
45°	1922	1927	1919	1906	1897	1481
55°	1427	1432	1424	1412	1397	1274
65°	883	888	872	866	852	874
75°	365	368	357	355	349	396
85°	52	53	51	51	50	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2902.5	2902.5	2902.5	2902.5	2902.5
2.5°	2903.2	2902.5	2901.7	2900.2	2902.5
5°	2896.5	2895.7	2895.0	2893.5	2893.5
7.5°	2886.0	2884.5	2884.5	2882.2	2881.5
10°	2869.5	2868.7	2866.5	2866.5	2865.7
12.5°	2848.5	2847.0	2844.8	2844.0	2842.5
15°	2820.0	2819.3	2816.3	2814.0	2813.3
17.5°	2787.8	2785.5	2783.3	2778.0	2778.0
20°	2748.8	2747.3	2742.1	2736.8	2733.8
22.5°	2703.8	2700.8	2694.8	2689.6	2683.6
25°	2648.4	2647.6	2640.9	2631.9	2629.6
27.5°	2583.9	2585.4	2578.6	2569.6	2565.1
30°	2513.4	2516.4	2506.7	2495.4	2493.2
32.5°	2436.2	2437.0	2428.7	2416.7	2412.2
35°	2348.5	2348.5	2341.0	2326.8	2322.3
37.5°	2251.1	2250.3	2245.8	2229.3	2221.1
40°	2145.4	2149.1	2140.1	2125.1	2121.4
42.5°	2035.9	2040.4	2032.2	2019.4	2011.2
45°	1922.0	1927.2	1919.0	1905.5	1897.3
47.5°	1804.3	1808.0	1802.1	1784.8	1773.6
50°	1682.1	1689.6	1681.4	1663.4	1655.9
52.5°	1556.2	1564.4	1554.7	1541.2	1526.9
55°	1427.2	1432.5	1424.2	1411.5	1397.3
57.5°	1294.6	1305.1	1291.6	1276.6	1264.6
60°	1159.6	1168.6	1155.1	1141.6	1128.9
62.5°	1022.5	1028.5	1013.5	1005.2	990.2
65°	883.0	887.5	872.5	866.5	852.3
67.5°	745.1	748.9	734.6	726.4	718.1
70°	610.2	613.2	601.2	593.7	586.2
72.5°	482.7	483.5	472.3	470.0	461.0
75°	365.1	368.1	356.8	354.6	348.6
77.5°	262.4	263.1	255.6	254.1	248.9
80°	173.9	174.7	169.4	168.7	164.2
82.5°	104.9	105.7	101.2	101.2	98.2
85°	52.5	53.2	51.0	51.0	49.5
87.5°	18.0	18.7	18.0	18.0	17.2
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)