

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: P506838

Luminaire Tested: **24PD-80-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506838
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-L850
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

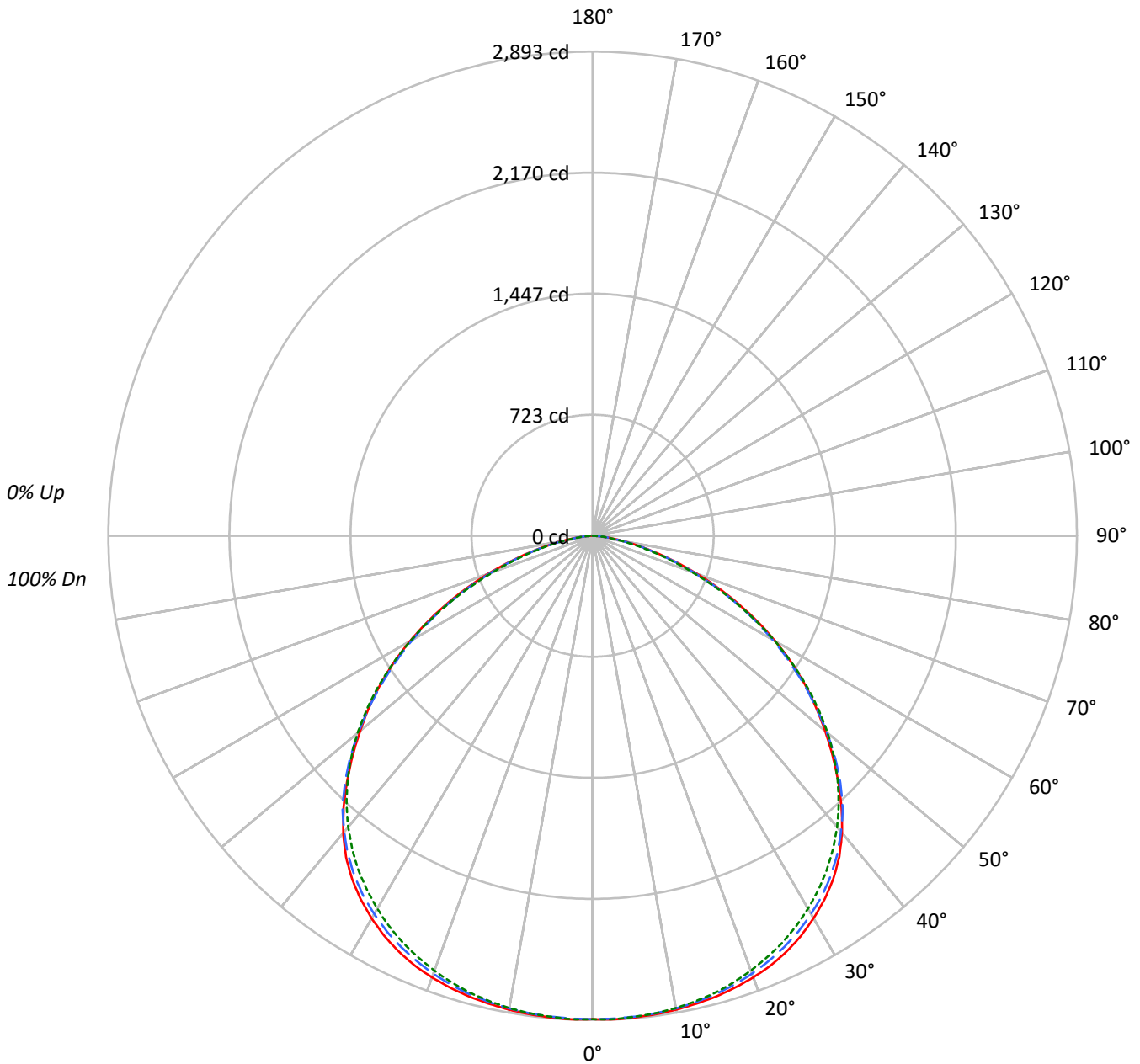
Lumens per Lamp: N/A
Luminaire Lumens: 8286.9 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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			100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72			72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61			61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39			39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3887	3887	3887
5°	3902	3895	3896
10°	3928	3918	3914
15°	3970	3950	3938
20°	4020	3987	3958
25°	4069	4023	3982
30°	4101	4054	3998
35°	4115	4073	4006
40°	4071	4055	3990
45°	3946	3983	3939
50°	3793	3821	3835
55°	3629	3601	3655
60°	3395	3340	3382
65°	3055	2994	2992
70°	2602	2542	2483
75°	2048	2002	1920
80°	1464	1422	1342
85°	868	855	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	3.3
10°-20°	801.8	9.7
20°-30°	1249.9	15.1
30°-40°	1546.7	18.7
40°-50°	1603.4	19.3
50°-60°	1380.5	16.7
60°-70°	936.6	11.3
70°-80°	418.0	5.0
80°-90°	75.2	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°	2326.6	28.1
0°-40°	3873.3	46.7
0°-60°	6857.1	82.7
0°-90°	8286.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8286.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2889	2889	2889	2889	2889	
5°	2889	2885	2884	2884	2885	275
15°	2850	2842	2836	2829	2827	806
25°	2741	2730	2710	2690	2682	1264
35°	2505	2498	2480	2453	2439	1564
45°	2074	2084	2093	2085	2070	1598
55°	1547	1548	1535	1553	1558	1380
65°	960	963	940	930	940	949
75°	394	397	385	376	369	428
85°	56	57	55	55	51	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2888.7	2888.7	2888.7	2888.7	2888.7
2.5°	2892.7	2886.4	2887.2	2888.0	2891.1
5°	2888.7	2884.8	2884.0	2884.0	2884.8
7.5°	2884.0	2879.3	2878.5	2877.7	2877.7
10°	2875.3	2870.5	2867.4	2865.8	2865.0
12.5°	2863.4	2857.9	2853.9	2850.8	2848.4
15°	2850.0	2842.1	2835.7	2829.4	2827.0
17.5°	2831.0	2823.9	2812.8	2802.5	2798.6
20°	2807.3	2800.2	2784.3	2770.1	2764.6
22.5°	2779.6	2769.3	2749.5	2733.7	2725.8
25°	2740.8	2730.5	2710.0	2690.2	2682.3
27.5°	2695.7	2686.2	2664.1	2640.4	2630.9
30°	2639.6	2633.2	2609.5	2583.4	2573.1
32.5°	2577.1	2570.8	2550.2	2520.9	2509.1
35°	2505.1	2498.0	2479.8	2452.9	2438.7
37.5°	2419.7	2417.3	2399.9	2372.2	2358.8
40°	2317.6	2322.4	2308.9	2285.2	2271.8
42.5°	2201.4	2211.6	2211.6	2189.5	2176.0
45°	2074.0	2083.5	2093.0	2085.1	2070.1
47.5°	1943.5	1953.8	1964.9	1968.0	1955.4
50°	1812.2	1818.5	1825.6	1839.9	1832.0
52.5°	1681.7	1684.0	1681.7	1700.7	1699.1
55°	1547.2	1548.0	1535.3	1552.7	1558.3
57.5°	1407.2	1409.6	1389.0	1398.5	1410.4
60°	1261.6	1264.0	1241.1	1242.7	1256.9
62.5°	1111.4	1114.5	1091.6	1086.0	1098.7
65°	959.5	963.4	940.5	930.2	939.7
67.5°	808.4	813.2	791.8	779.1	781.5
70°	661.3	665.2	646.2	634.4	631.2
72.5°	521.3	525.2	510.2	498.3	492.8
75°	393.9	397.1	385.2	376.5	369.4
77.5°	283.2	285.6	276.1	269.7	262.6
80°	189.0	189.8	183.5	179.6	173.2
82.5°	113.1	113.9	109.9	108.4	103.6
85°	56.2	57.0	55.4	55.4	51.4
87.5°	19.8	19.0	19.8	19.8	17.4
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)