

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: P506889

Luminaire Tested: **24PD-90-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506889
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-L830
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

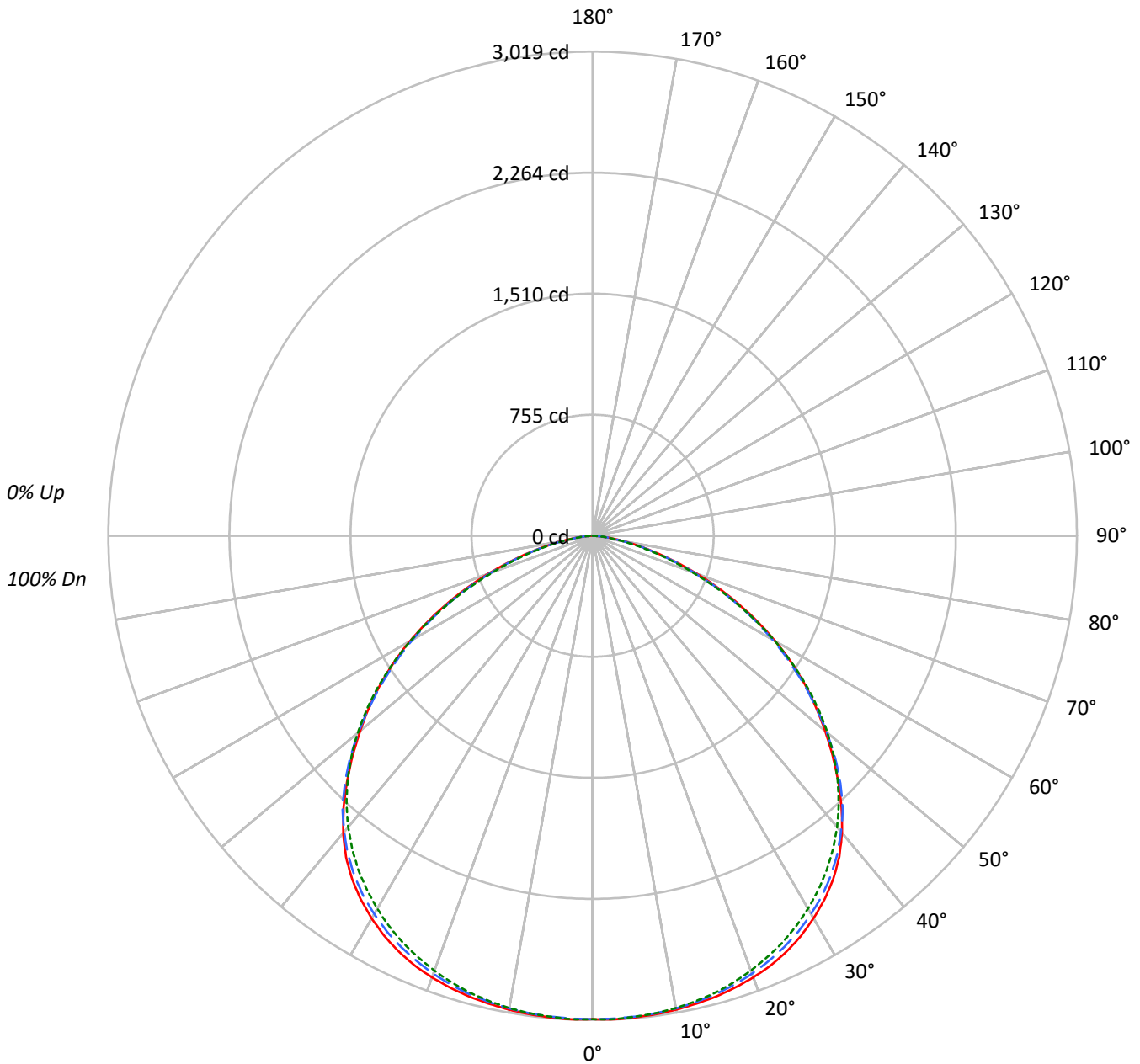
Lumens per Lamp: N/A
Luminaire Lumens: 8647.8 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4056	4056	4056
5°	4071	4065	4066
10°	4099	4088	4085
15°	4143	4122	4109
20°	4195	4160	4131
25°	4246	4198	4155
30°	4279	4231	4172
35°	4294	4251	4180
40°	4248	4232	4164
45°	4118	4156	4110
50°	3958	3988	4002
55°	3788	3758	3814
60°	3543	3485	3529
65°	3188	3125	3122
70°	2715	2653	2591
75°	2137	2090	2004
80°	1529	1484	1401
85°	905	892	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	3.3
10°-20°	836.7	9.7
20°-30°	1304.3	15.1
30°-40°	1614.0	18.7
40°-50°	1673.2	19.3
50°-60°	1440.6	16.7
60°-70°	977.4	11.3
70°-80°	436.2	5.0
80°-90°	78.5	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°	2427.9	28.1
0°-40°	4041.9	46.7
0°-60°	7155.7	82.7
0°-90°	8647.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8647.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3014	3010	3010	3010	3010	287
15°	2974	2966	2959	2953	2950	841
25°	2860	2849	2828	2807	2799	1319
35°	2614	2607	2588	2560	2545	1632
45°	2164	2174	2184	2176	2160	1668
55°	1615	1615	1602	1620	1626	1440
65°	1001	1005	982	971	981	991
75°	411	414	402	393	386	446
85°	59	59	58	58	54	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3014.5	3014.5	3014.5	3014.5	3014.5
2.5°	3018.6	3012.0	3012.9	3013.7	3017.0
5°	3014.5	3010.4	3009.6	3009.6	3010.4
7.5°	3009.6	3004.6	3003.8	3003.0	3003.0
10°	3000.5	2995.5	2992.2	2990.6	2989.8
12.5°	2988.1	2982.3	2978.2	2974.9	2972.4
15°	2974.1	2965.8	2959.2	2952.6	2950.1
17.5°	2954.3	2946.8	2935.3	2924.5	2920.4
20°	2929.5	2922.1	2905.6	2890.7	2884.9
22.5°	2900.6	2889.9	2869.2	2852.7	2844.5
25°	2860.2	2849.4	2828.0	2807.3	2799.1
27.5°	2813.1	2803.2	2780.1	2755.3	2745.4
30°	2754.5	2747.9	2723.1	2695.9	2685.2
32.5°	2689.3	2682.7	2661.2	2630.7	2618.3
35°	2614.2	2606.8	2587.8	2559.7	2544.8
37.5°	2525.0	2522.6	2504.4	2475.5	2461.5
40°	2418.6	2423.5	2409.5	2384.7	2370.7
42.5°	2297.2	2307.9	2307.9	2284.8	2270.8
45°	2164.3	2174.2	2184.1	2175.9	2160.2
47.5°	2028.1	2038.8	2050.4	2053.7	2040.5
50°	1891.1	1897.7	1905.1	1920.0	1911.7
52.5°	1754.9	1757.4	1754.9	1774.7	1773.1
55°	1614.6	1615.4	1602.2	1620.3	1626.1
57.5°	1468.5	1470.9	1449.5	1459.4	1471.8
60°	1316.6	1319.1	1295.1	1296.8	1311.6
62.5°	1159.7	1163.1	1139.1	1133.3	1146.5
65°	1001.3	1005.4	981.5	970.7	980.6
67.5°	843.6	848.6	826.3	813.1	815.5
70°	690.1	694.2	674.4	662.0	658.7
72.5°	544.0	548.1	532.4	520.0	514.3
75°	411.1	414.4	402.0	392.9	385.5
77.5°	295.5	298.0	288.1	281.5	274.0
80°	197.3	198.1	191.5	187.4	180.8
82.5°	118.0	118.9	114.7	113.1	108.1
85°	58.6	59.4	57.8	57.8	53.7
87.5°	20.6	19.8	20.6	20.6	18.2
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)