

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: P506892

Luminaire Tested: **24PD-90-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506892
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-L850
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

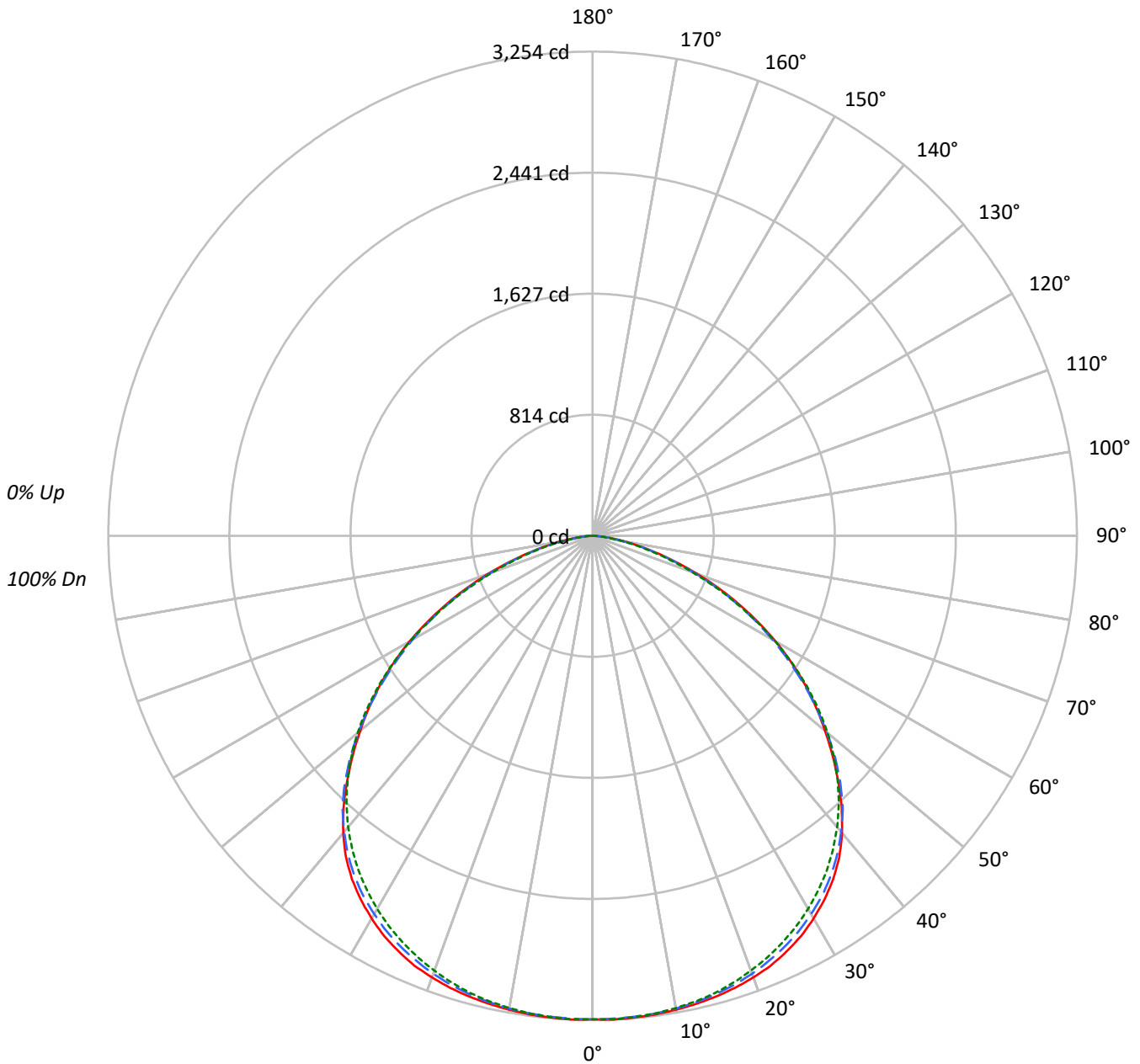
Lumens per Lamp: N/A
Luminaire Lumens: 9323.3 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4373	4373	4373
5°	4390	4382	4384
10°	4420	4408	4404
15°	4466	4444	4430
20°	4522	4485	4453
25°	4578	4526	4480
30°	4614	4561	4498
35°	4629	4583	4506
40°	4580	4563	4489
45°	4440	4481	4431
50°	4268	4299	4314
55°	4083	4052	4113
60°	3820	3757	3805
65°	3437	3369	3366
70°	2927	2860	2794
75°	2304	2253	2161
80°	1648	1600	1510
85°	976	962	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	3.3
10°-20°	902.1	9.7
20°-30°	1406.2	15.1
30°-40°	1740.1	18.7
40°-50°	1803.9	19.3
50°-60°	1553.2	16.7
60°-70°	1053.8	11.3
70°-80°	470.2	5.0
80°-90°	84.6	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°	2617.6	28.1
0°-40°	4357.7	46.7
0°-60°	7714.7	82.7
0°-90°	9323.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9323.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3250	3250	3250	3250	3250	
5°	3250	3246	3245	3245	3246	310
15°	3206	3198	3190	3183	3181	907
25°	3084	3072	3049	3027	3018	1422
35°	2818	2810	2790	2760	2744	1759
45°	2333	2344	2355	2346	2329	1798
55°	1741	1742	1727	1747	1753	1552
65°	1080	1084	1058	1047	1057	1068
75°	443	447	433	424	416	481
85°	63	64	62	62	58	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3250.0	3250.0	3250.0	3250.0	3250.0
2.5°	3254.5	3247.3	3248.2	3249.1	3252.7
5°	3250.0	3245.6	3244.7	3244.7	3245.6
7.5°	3244.7	3239.3	3238.4	3237.6	3237.6
10°	3234.9	3229.5	3226.0	3224.2	3223.3
12.5°	3221.5	3215.3	3210.9	3207.3	3204.6
15°	3206.4	3197.5	3190.4	3183.3	3180.6
17.5°	3185.0	3177.0	3164.6	3153.0	3148.6
20°	3158.3	3150.3	3132.5	3116.5	3110.3
22.5°	3127.2	3115.6	3093.4	3075.6	3066.7
25°	3083.6	3072.0	3048.9	3026.6	3017.7
27.5°	3032.9	3022.2	2997.3	2970.6	2959.9
30°	2969.7	2962.6	2935.9	2906.5	2894.9
32.5°	2899.4	2892.3	2869.1	2836.2	2822.8
35°	2818.4	2810.4	2789.9	2759.7	2743.6
37.5°	2722.3	2719.6	2700.0	2668.9	2653.8
40°	2607.5	2612.8	2597.7	2571.0	2555.9
42.5°	2476.7	2488.2	2488.2	2463.3	2448.2
45°	2333.4	2344.1	2354.7	2345.8	2328.9
47.5°	2186.5	2198.1	2210.6	2214.1	2199.9
50°	2038.8	2045.9	2053.9	2070.0	2061.1
52.5°	1892.0	1894.7	1892.0	1913.3	1911.6
55°	1740.7	1741.6	1727.3	1746.9	1753.2
57.5°	1583.2	1585.8	1562.7	1573.4	1586.7
60°	1419.4	1422.1	1396.3	1398.1	1414.1
62.5°	1250.3	1253.9	1228.1	1221.9	1236.1
65°	1079.5	1083.9	1058.1	1046.6	1057.2
67.5°	909.5	914.8	890.8	876.6	879.2
70°	744.0	748.4	727.1	713.7	710.2
72.5°	586.5	590.9	574.0	560.7	554.4
75°	443.2	446.7	433.4	423.6	415.6
77.5°	318.6	321.3	310.6	303.5	295.5
80°	212.7	213.6	206.5	202.0	194.9
82.5°	127.3	128.1	123.7	121.9	116.6
85°	63.2	64.1	62.3	62.3	57.8
87.5°	22.2	21.4	22.2	22.2	19.6
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)