

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: P506891

Luminaire Tested: **24PD-90-PL1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506891
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-L840
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

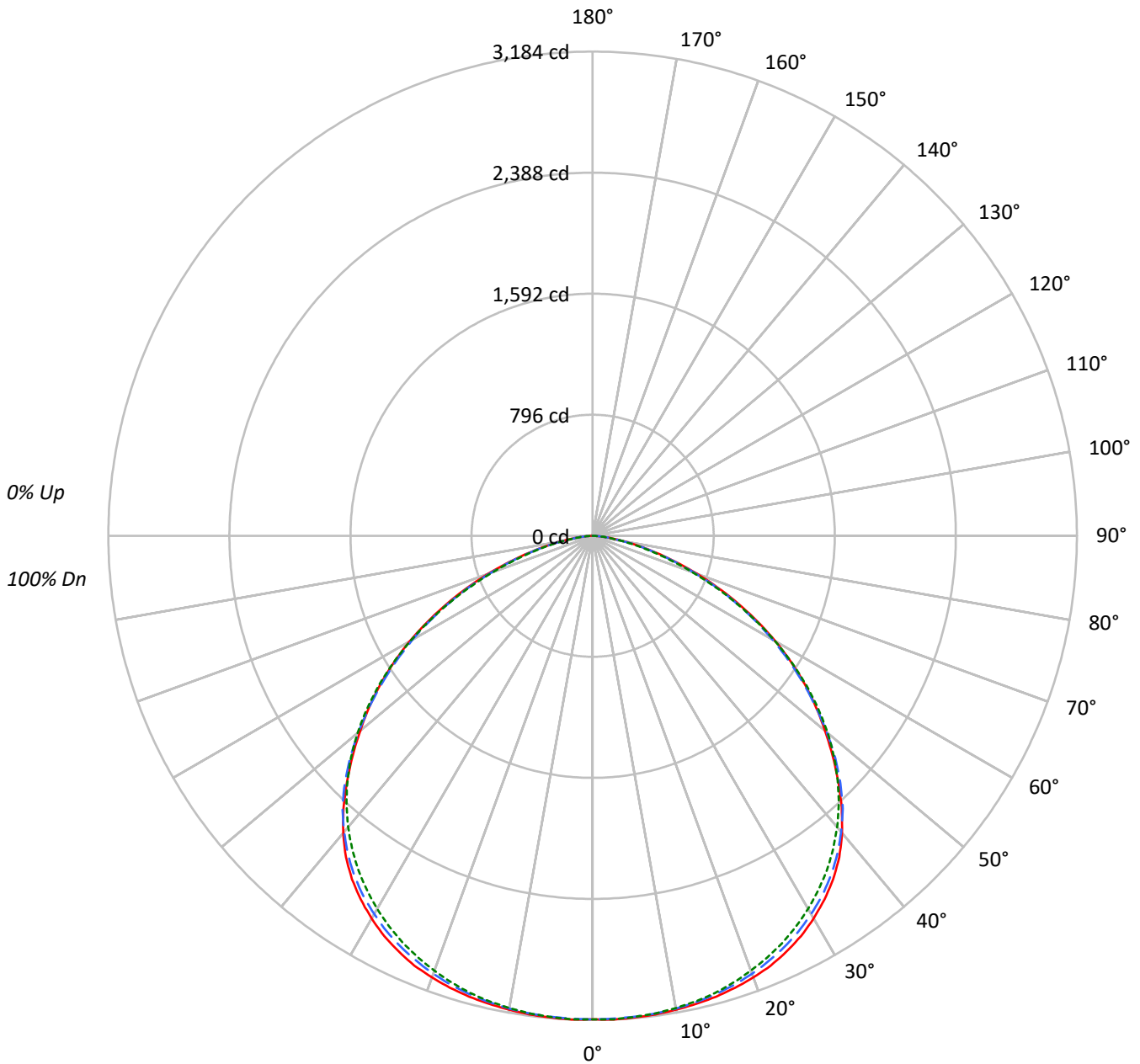
Lumens per Lamp: N/A
Luminaire Lumens: 9122.9 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4279	4279	4279
5°	4295	4288	4289
10°	4325	4313	4309
15°	4370	4349	4335
20°	4425	4389	4358
25°	4479	4429	4384
30°	4515	4463	4401
35°	4530	4484	4410
40°	4481	4464	4393
45°	4344	4384	4336
50°	4176	4207	4222
55°	3996	3965	4024
60°	3738	3677	3724
65°	3363	3296	3294
70°	2864	2799	2734
75°	2255	2205	2114
80°	1612	1565	1478
85°	954	942	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	3.3
10°-20°	882.7	9.7
20°-30°	1376.0	15.1
30°-40°	1702.7	18.7
40°-50°	1765.1	19.3
50°-60°	1519.8	16.7
60°-70°	1031.1	11.3
70°-80°	460.1	5.0
80°-90°	82.8	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°	2561.3	28.1
0°-40°	4264.0	46.7
0°-60°	7548.8	82.7
0°-90°	9122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9122.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3180	3180	3180	3180	3180	
5°	3180	3176	3175	3175	3176	303
15°	3138	3129	3122	3115	3112	887
25°	3017	3006	2983	2962	2953	1391
35°	2758	2750	2730	2700	2685	1721
45°	2283	2294	2304	2295	2279	1760
55°	1703	1704	1690	1709	1716	1519
65°	1056	1061	1035	1024	1034	1045
75°	434	437	424	414	407	471
85°	62	63	61	61	57	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3180.1	3180.1	3180.1	3180.1	3180.1
2.5°	3184.5	3177.5	3178.4	3179.3	3182.7
5°	3180.1	3175.8	3174.9	3174.9	3175.8
7.5°	3174.9	3169.7	3168.8	3167.9	3167.9
10°	3165.3	3160.1	3156.6	3154.9	3154.0
12.5°	3152.3	3146.2	3141.8	3138.3	3135.7
15°	3137.5	3128.8	3121.8	3114.8	3112.2
17.5°	3116.6	3108.7	3096.5	3085.2	3080.9
20°	3090.4	3082.6	3065.2	3049.5	3043.4
22.5°	3060.0	3048.6	3026.9	3009.5	3000.7
25°	3017.3	3006.0	2983.3	2961.6	2952.9
27.5°	2967.7	2957.2	2932.8	2906.7	2896.3
30°	2905.8	2898.9	2872.7	2844.0	2832.7
32.5°	2837.0	2830.1	2807.4	2775.2	2762.2
35°	2757.8	2750.0	2729.9	2700.3	2684.7
37.5°	2663.8	2661.1	2642.0	2611.5	2596.7
40°	2551.4	2556.6	2541.8	2515.7	2500.9
42.5°	2423.4	2434.7	2434.7	2410.4	2395.5
45°	2283.2	2293.7	2304.1	2295.4	2278.9
47.5°	2139.5	2150.9	2163.0	2166.5	2152.6
50°	1995.0	2002.0	2009.8	2025.5	2016.8
52.5°	1851.3	1853.9	1851.3	1872.2	1870.5
55°	1703.3	1704.1	1690.2	1709.4	1715.5
57.5°	1549.1	1551.8	1529.1	1539.6	1552.6
60°	1388.9	1391.5	1366.3	1368.0	1383.7
62.5°	1223.5	1226.9	1201.7	1195.6	1209.5
65°	1056.3	1060.6	1035.4	1024.1	1034.5
67.5°	889.9	895.2	871.7	857.7	860.3
70°	728.0	732.3	711.4	698.4	694.9
72.5°	573.9	578.2	561.7	548.6	542.5
75°	433.7	437.1	424.1	414.5	406.7
77.5°	311.7	314.4	303.9	296.9	289.1
80°	208.1	209.0	202.0	197.7	190.7
82.5°	124.5	125.4	121.0	119.3	114.1
85°	61.8	62.7	61.0	61.0	56.6
87.5°	21.8	20.9	21.8	21.8	19.2
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)