

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: P506144

Luminaire Tested: **14PD-80-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-80-PR1-L840
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

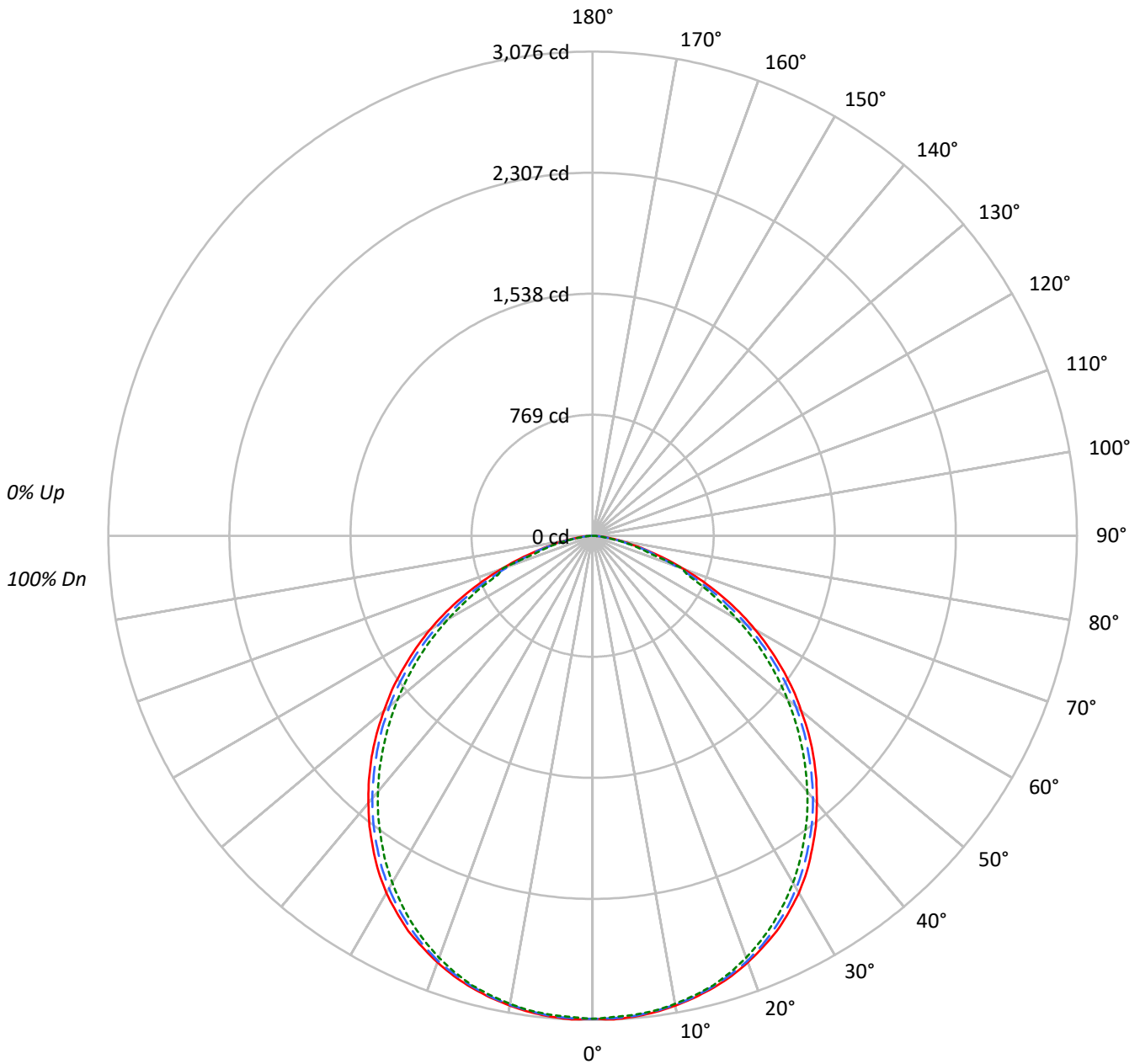
Lumens per Lamp: N/A
Luminaire Lumens: 7896.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 84.4
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	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8256	8256	8256
5°	8284	8272	8251
10°	8284	8267	8251
15°	8281	8255	8238
20°	8260	8229	8168
25°	8225	8153	8063
30°	8141	8037	7909
35°	7982	7863	7703
40°	7783	7650	7452
45°	7553	7368	7136
50°	7240	7049	6763
55°	6887	6616	6303
60°	6412	6077	5701
65°	5757	5351	5003
70°	4843	4412	4770
75°	3728	3587	3223
80°	2684	2402	2284
85°	1643	1408	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	3.7
10°-20°	835.5	10.6
20°-30°	1262.0	16.0
30°-40°	1493.1	18.9
40°-50°	1488.7	18.9
50°-60°	1257.7	15.9
60°-70°	838.0	10.6
70°-80°	364.0	4.6
80°-90°	66.0	0.8
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°	2388.4	30.2
0°-40°	3881.5	49.2
0°-60°	6627.9	83.9
0°-90°	7896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3068	3068	3068	3068	3068	
5°	3067	3054	3062	3059	3054	292
15°	2972	2959	2963	2959	2957	839
25°	2770	2752	2746	2722	2716	1275
35°	2430	2413	2393	2362	2345	1520
45°	1985	1966	1936	1895	1875	1528
55°	1468	1457	1410	1365	1343	1311
65°	904	894	840	804	786	894
75°	359	351	345	333	310	392
85°	53	55	46	43	41	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3068.2	3068.2	3068.2	3068.2	3068.2
2.5°	3075.8	3062.1	3068.2	3068.2	3060.6
5°	3066.7	3054.5	3062.1	3059.1	3054.5
7.5°	3053.0	3040.8	3045.4	3043.9	3042.3
10°	3031.7	3019.5	3025.6	3022.6	3019.5
12.5°	3004.3	2992.2	2998.3	2993.7	2990.7
15°	2972.4	2958.8	2963.3	2958.8	2957.2
17.5°	2932.9	2919.2	2920.8	2914.7	2908.6
20°	2884.3	2872.1	2873.7	2858.5	2852.4
22.5°	2828.1	2815.9	2814.4	2794.6	2787.0
25°	2770.3	2752.1	2746.0	2721.7	2715.6
27.5°	2697.4	2680.7	2671.5	2645.7	2633.6
30°	2619.9	2601.6	2586.4	2557.6	2545.4
32.5°	2531.7	2513.5	2493.7	2463.4	2449.7
35°	2429.9	2413.2	2393.4	2361.5	2344.8
37.5°	2328.1	2309.9	2290.1	2252.1	2238.4
40°	2215.6	2198.9	2177.7	2136.6	2121.4
42.5°	2103.2	2083.4	2057.6	2018.1	2001.4
45°	1984.7	1966.4	1936.0	1895.0	1875.2
47.5°	1860.1	1844.9	1812.9	1768.9	1747.6
50°	1729.4	1717.2	1683.8	1635.1	1615.4
52.5°	1604.7	1588.0	1550.0	1501.4	1480.1
55°	1468.0	1457.3	1410.2	1364.6	1343.4
57.5°	1331.2	1317.5	1270.4	1224.8	1205.1
60°	1191.4	1179.2	1129.1	1083.5	1059.2
62.5°	1050.1	1036.4	983.2	942.2	919.4
65°	904.2	893.6	840.4	803.9	785.7
67.5°	758.3	750.7	694.5	664.1	650.4
70°	615.5	604.8	560.8	548.6	606.3
72.5°	483.2	469.6	431.6	411.8	396.6
75°	358.6	351.0	345.0	332.8	310.0
77.5°	252.3	250.7	229.5	212.8	229.5
80°	173.2	179.3	155.0	141.3	147.4
82.5°	106.4	118.5	92.7	82.1	79.0
85°	53.2	54.7	45.6	42.6	41.0
87.5°	19.8	22.8	19.8	16.7	16.7
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)