

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: P506145

Luminaire Tested: **14PD-80-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506145
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-L850
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

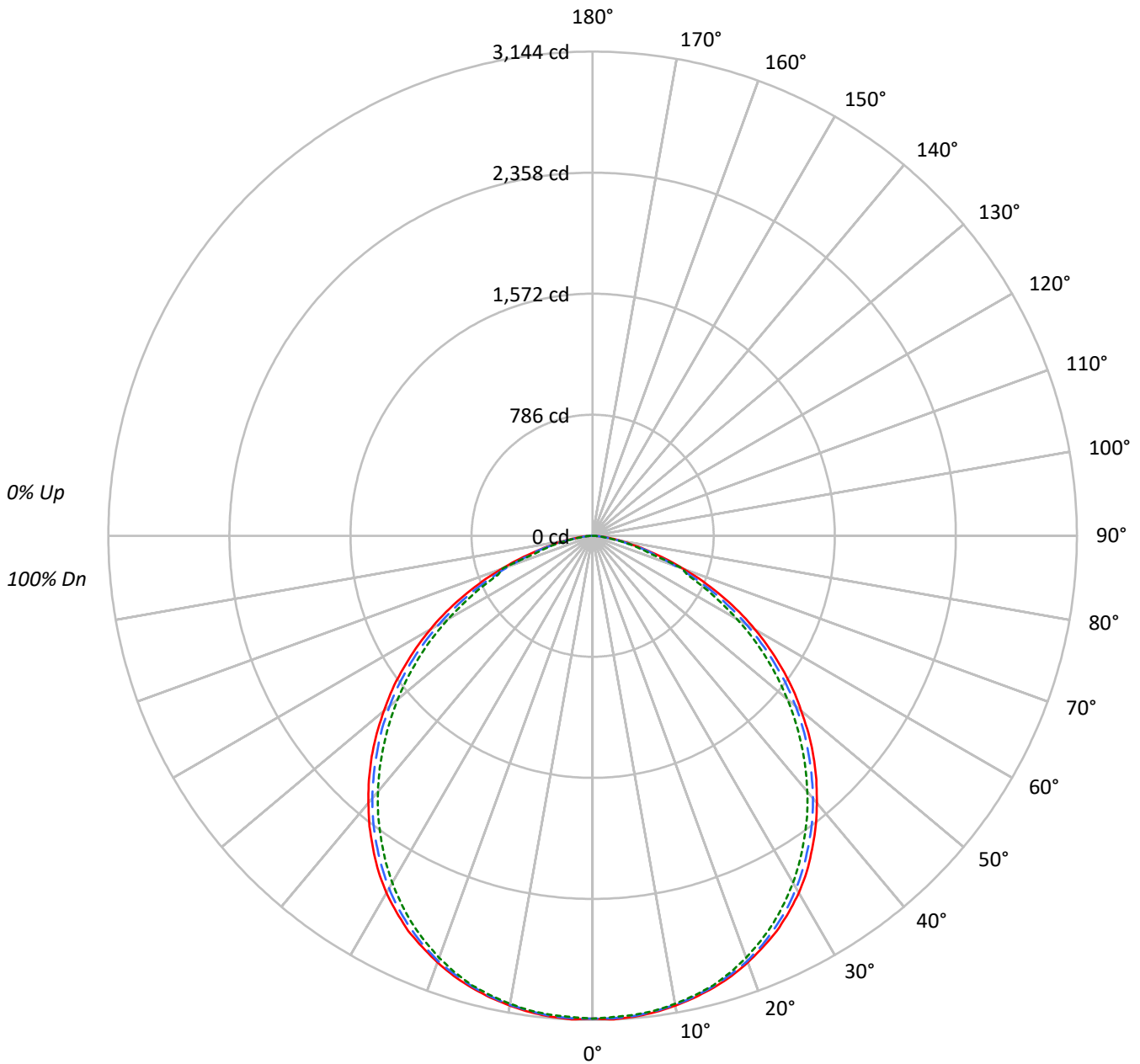
Lumens per Lamp: N/A
Luminaire Lumens: 8070.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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								
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°	8438	8438	8438
5°	8466	8454	8433
10°	8467	8450	8433
15°	8463	8437	8420
20°	8442	8411	8348
25°	8407	8333	8241
30°	8320	8214	8084
35°	8158	8036	7873
40°	7955	7818	7617
45°	7719	7530	7294
50°	7399	7204	6912
55°	7039	6762	6442
60°	6554	6211	5826
65°	5884	5469	5113
70°	4949	4509	4876
75°	3811	3666	3294
80°	2744	2455	2335
85°	1680	1439	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	3.7
10°-20°	853.9	10.6
20°-30°	1289.9	16.0
30°-40°	1526.0	18.9
40°-50°	1521.5	18.9
50°-60°	1285.4	15.9
60°-70°	856.4	10.6
70°-80°	372.1	4.6
80°-90°	67.5	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°	2441.1	30.2
0°-40°	3967.1	49.2
0°-60°	6774.0	83.9
0°-90°	8070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3136	3136	3136	3136	3136	
5°	3134	3122	3130	3126	3122	298
15°	3038	3024	3029	3024	3022	857
25°	2831	2813	2806	2782	2776	1303
35°	2484	2466	2446	2414	2396	1553
45°	2028	2010	1979	1937	1917	1562
55°	1500	1490	1441	1395	1373	1340
65°	924	913	859	822	803	913
75°	366	359	353	340	317	401
85°	54	56	47	44	42	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3135.8	3135.8	3135.8	3135.8	3135.8
2.5°	3143.5	3129.6	3135.8	3135.8	3128.0
5°	3134.2	3121.8	3129.6	3126.5	3121.8
7.5°	3120.3	3107.8	3112.5	3110.9	3109.4
10°	3098.5	3086.1	3092.3	3089.2	3086.1
12.5°	3070.6	3058.1	3064.3	3059.7	3056.6
15°	3037.9	3024.0	3028.6	3024.0	3022.4
17.5°	2997.6	2983.6	2985.1	2978.9	2972.7
20°	2947.9	2935.4	2937.0	2921.5	2915.2
22.5°	2890.4	2878.0	2876.4	2856.2	2848.5
25°	2831.4	2812.7	2806.5	2781.7	2775.5
27.5°	2756.8	2739.7	2730.4	2704.0	2691.6
30°	2677.6	2659.0	2643.4	2613.9	2601.5
32.5°	2587.5	2568.9	2548.7	2517.6	2503.7
35°	2483.5	2466.4	2446.2	2413.6	2396.5
37.5°	2379.4	2360.8	2340.6	2301.7	2287.8
40°	2264.5	2247.4	2225.6	2183.7	2168.2
42.5°	2149.5	2129.4	2102.9	2062.6	2045.5
45°	2028.4	2009.8	1978.7	1936.8	1916.6
47.5°	1901.0	1885.5	1852.9	1807.9	1786.1
50°	1767.5	1755.0	1720.9	1671.2	1651.0
52.5°	1640.1	1623.0	1584.2	1534.5	1512.8
55°	1500.3	1489.5	1441.3	1394.7	1373.0
57.5°	1360.5	1346.6	1298.4	1251.8	1231.6
60°	1217.7	1205.2	1154.0	1107.4	1082.5
62.5°	1073.2	1059.2	1004.9	962.9	939.6
65°	924.1	913.2	858.9	821.6	803.0
67.5°	775.0	767.2	709.8	678.7	664.7
70°	629.0	618.1	573.1	560.7	619.7
72.5°	493.9	479.9	441.1	420.9	405.4
75°	366.5	358.8	352.6	340.1	316.8
77.5°	257.8	256.3	234.5	217.4	234.5
80°	177.1	183.3	158.4	144.4	150.7
82.5°	108.7	121.1	94.7	83.9	80.8
85°	54.4	55.9	46.6	43.5	41.9
87.5°	20.2	23.3	20.2	17.1	17.1
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)