

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: P506142

Luminaire Tested: **14PD-80-PR1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506142
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-L830
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

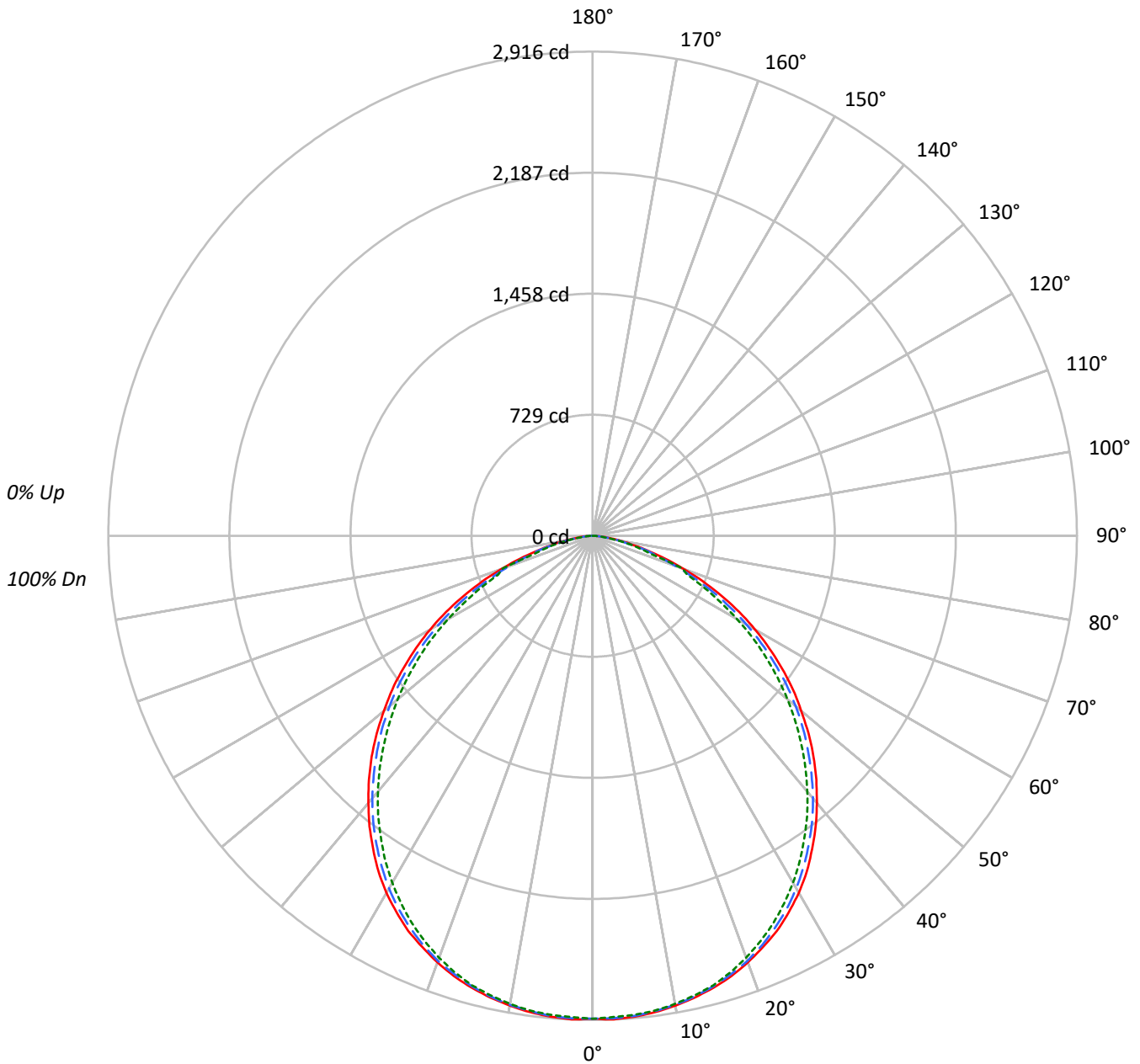
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7485.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

TEST NUMBER: P506142
CATALOG NUMBER: 14PD-80-PR1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P506142

CATALOG NUMBER: 14PD-80-PR1-L830

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			100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86			86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62			62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53			53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41			41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36			36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32			32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29			29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7827	7827	7827
5°	7853	7841	7821
10°	7853	7837	7821
15°	7850	7826	7810
20°	7830	7801	7743
25°	7797	7729	7644
30°	7717	7618	7498
35°	7567	7454	7302
40°	7378	7252	7064
45°	7160	6984	6765
50°	6863	6682	6411
55°	6529	6272	5974
60°	6078	5760	5404
65°	5457	5072	4742
70°	4590	4183	4522
75°	3535	3400	3056
80°	2545	2276	2165
85°	1556	1334	1201



TEST NUMBER: P506142

CATALOG NUMBER: 14PD-80-PR1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	3.7
10°-20°	792.0	10.6
20°-30°	1196.4	16.0
30°-40°	1415.4	18.9
40°-50°	1411.2	18.9
50°-60°	1192.2	15.9
60°-70°	794.4	10.6
70°-80°	345.1	4.6
80°-90°	62.6	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°	2264.1	30.2
0°-40°	3679.5	49.2
0°-60°	6282.9	83.9
0°-90°	7485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2907	2896	2903	2900	2896	276
15°	2818	2805	2809	2805	2803	795
25°	2626	2609	2603	2580	2574	1209
35°	2303	2288	2269	2239	2223	1440
45°	1881	1864	1835	1796	1778	1449
55°	1392	1382	1337	1294	1273	1242
65°	857	847	797	762	745	847
75°	340	333	327	316	294	372
85°	50	52	43	40	39	69
90°	0	0	0	0	0	



TEST NUMBER: P506142

CATALOG NUMBER: 14PD-80-PR1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2908.5	2908.5	2908.5	2908.5	2908.5
2.5°	2915.7	2902.7	2908.5	2908.5	2901.3
5°	2907.0	2895.5	2902.7	2899.8	2895.5
7.5°	2894.1	2882.5	2886.9	2885.4	2884.0
10°	2873.9	2862.4	2868.1	2865.3	2862.4
12.5°	2848.0	2836.4	2842.2	2837.9	2835.0
15°	2817.7	2804.7	2809.1	2804.7	2803.3
17.5°	2780.3	2767.3	2768.7	2763.0	2757.2
20°	2734.2	2722.6	2724.1	2709.7	2703.9
22.5°	2680.9	2669.3	2667.9	2649.2	2642.0
25°	2626.1	2608.8	2603.1	2580.0	2574.3
27.5°	2557.0	2541.1	2532.5	2508.0	2496.5
30°	2483.5	2466.2	2451.8	2424.4	2412.9
32.5°	2400.0	2382.7	2363.9	2335.1	2322.2
35°	2303.4	2287.6	2268.9	2238.6	2222.8
37.5°	2206.9	2189.6	2170.9	2134.9	2121.9
40°	2100.3	2084.5	2064.3	2025.4	2011.0
42.5°	1993.7	1975.0	1950.5	1913.0	1897.2
45°	1881.4	1864.1	1835.3	1796.4	1777.6
47.5°	1763.2	1748.8	1718.6	1676.8	1656.6
50°	1639.3	1627.8	1596.1	1550.0	1531.3
52.5°	1521.2	1505.4	1469.4	1423.3	1403.1
55°	1391.6	1381.5	1336.8	1293.6	1273.4
57.5°	1261.9	1249.0	1204.3	1161.1	1142.4
60°	1129.4	1117.9	1070.3	1027.1	1004.1
62.5°	995.4	982.5	932.0	893.1	871.5
65°	857.1	847.0	796.6	762.1	744.8
67.5°	718.8	711.6	658.3	629.5	616.6
70°	583.4	573.3	531.6	520.0	574.8
72.5°	458.1	445.1	409.1	390.4	376.0
75°	340.0	332.8	327.0	315.5	293.9
77.5°	239.1	237.7	217.5	201.7	217.5
80°	164.2	170.0	146.9	134.0	139.7
82.5°	100.8	112.4	87.9	77.8	74.9
85°	50.4	51.9	43.2	40.3	38.9
87.5°	18.7	21.6	18.7	15.8	15.8
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)