

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: P505809

Luminaire Tested: **14PD-20-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-20-PL1-L830
Description: 2000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

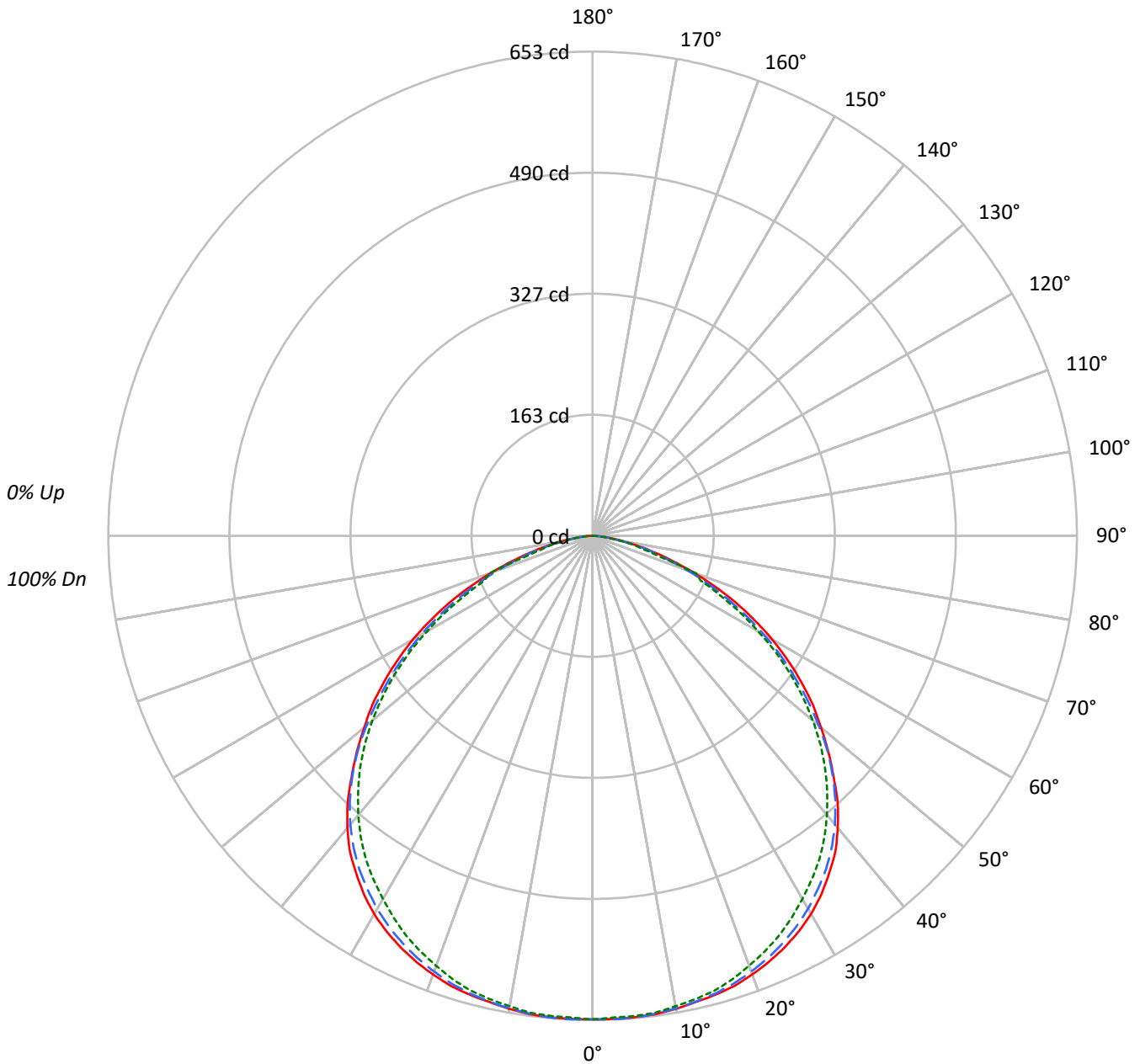
Lumens per Lamp: N/A
Luminaire Lumens: 1812.7 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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				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	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72				72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52				52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45				45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40				40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35				35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31				31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28				28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1755	1755	1755
5°	1761	1762	1756
10°	1770	1768	1761
15°	1785	1780	1769
20°	1803	1791	1767
25°	1819	1801	1766
30°	1831	1805	1757
35°	1826	1803	1751
40°	1807	1785	1726
45°	1749	1743	1687
50°	1683	1667	1622
55°	1610	1563	1528
60°	1504	1436	1388
65°	1354	1270	1202
70°	1133	1062	1167
75°	894	860	744
80°	643	572	583
85°	411	343	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.4
10°-20°	180.2	9.9
20°-30°	278.7	15.4
30°-40°	341.1	18.8
40°-50°	349.7	19.3
50°-60°	297.8	16.4
60°-70°	199.0	11.0
70°-80°	88.2	4.9
80°-90°	16.0	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°	520.9	28.7
0°-40°	862.0	47.6
0°-60°	1509.5	83.3
0°-90°	1812.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1812.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	652	650	652	652	650	62
15°	641	639	639	637	635	181
25°	612	610	606	598	595	282
35°	556	554	549	536	533	348
45°	460	461	458	448	443	355
55°	343	341	333	326	326	306
65°	213	211	200	190	189	210
75°	86	87	83	83	72	93
85°	13	13	11	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.2	652.2	652.2	652.2	652.2
2.5°	652.2	651.1	652.9	653.6	650.4
5°	651.9	650.4	652.2	651.9	650.1
7.5°	650.8	648.3	650.1	649.3	648.6
10°	647.9	645.8	647.2	646.1	644.3
12.5°	644.0	642.5	643.6	642.5	640.0
15°	640.8	638.6	639.0	637.2	635.0
17.5°	636.5	633.2	633.2	629.6	627.1
20°	629.6	626.8	625.4	620.3	617.1
22.5°	621.8	619.6	616.8	610.3	606.7
25°	612.5	610.3	606.4	598.5	594.9
27.5°	601.7	598.8	594.5	585.2	580.9
30°	589.2	585.6	580.9	570.6	565.5
32.5°	573.8	571.3	565.2	554.4	549.8
35°	555.9	554.4	548.7	536.5	532.9
37.5°	537.6	534.7	529.7	516.8	513.2
40°	514.3	512.5	508.2	495.7	491.4
42.5°	489.2	488.2	484.6	472.8	468.1
45°	459.5	461.0	458.1	447.7	443.4
47.5°	431.2	430.5	429.4	420.1	416.5
50°	401.9	400.4	398.3	390.8	387.5
52.5°	374.3	371.4	365.7	359.2	357.1
55°	343.1	341.3	333.1	326.3	325.6
57.5°	311.6	310.5	300.5	292.6	292.6
60°	279.4	277.9	266.8	258.6	257.9
62.5°	245.7	244.6	233.2	223.9	224.2
65°	212.7	211.0	199.5	190.5	188.8
67.5°	178.4	177.6	166.5	158.3	157.6
70°	144.0	144.0	135.0	127.9	148.3
72.5°	113.5	112.5	105.3	102.1	97.4
75°	86.0	87.0	82.7	83.1	71.6
77.5°	61.2	59.5	57.7	53.7	56.9
80°	41.5	40.5	36.9	35.8	37.6
82.5°	25.8	26.1	22.9	20.8	20.4
85°	13.3	12.9	11.1	10.7	10.4
87.5°	5.0	5.4	4.7	4.3	3.9
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)