

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: P505812

Luminaire Tested: **14PD-20-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505812
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-L850
Description: 2000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

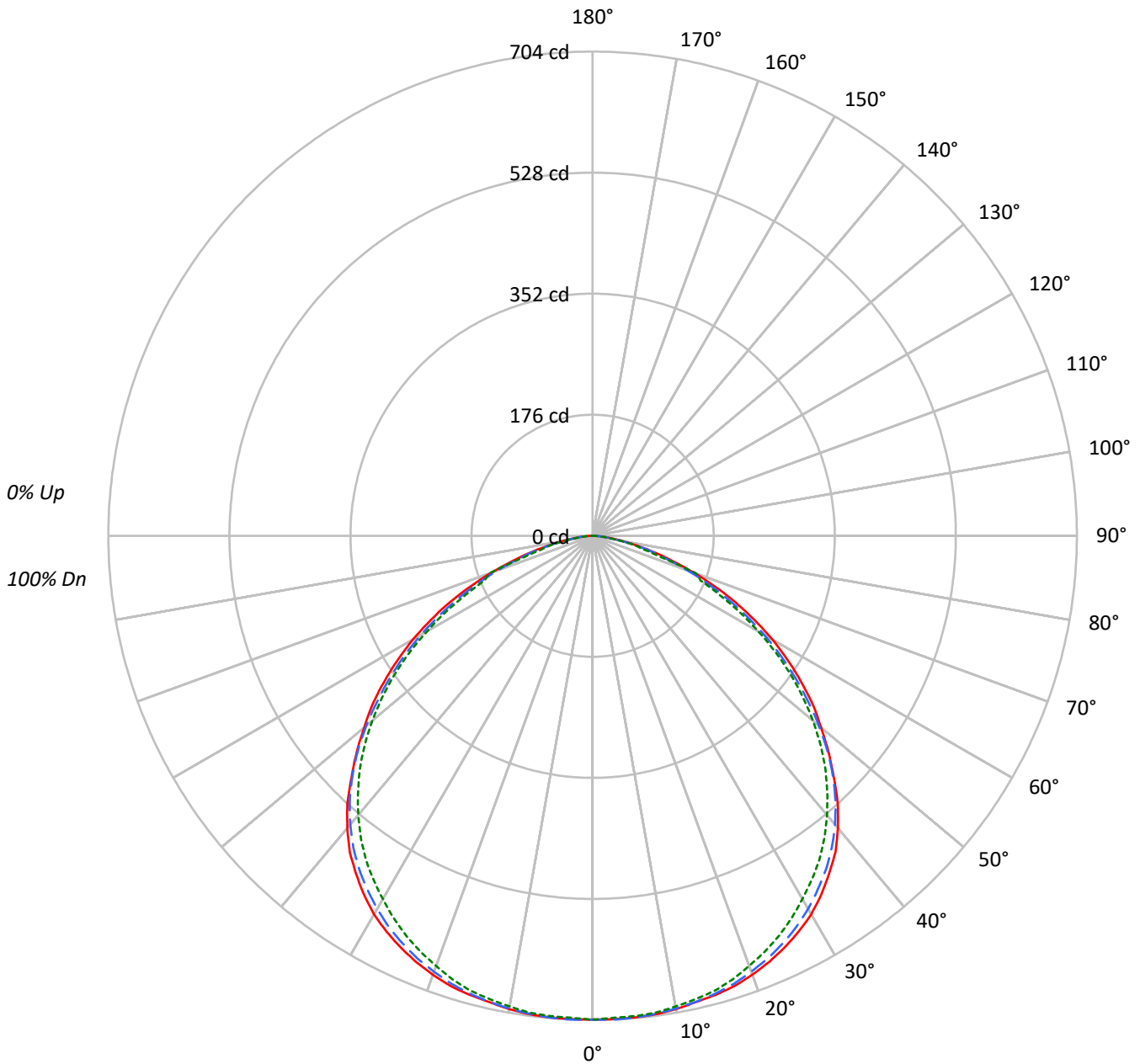
Lumens per Lamp: N/A
Luminaire Lumens: 1954.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1893	1893	1893
5°	1899	1900	1894
10°	1909	1907	1899
15°	1925	1920	1908
20°	1945	1931	1906
25°	1961	1942	1905
30°	1974	1947	1895
35°	1969	1944	1888
40°	1949	1925	1862
45°	1886	1880	1820
50°	1814	1798	1750
55°	1736	1685	1647
60°	1622	1549	1497
65°	1461	1370	1296
70°	1222	1146	1258
75°	964	927	804
80°	694	617	629
85°	442	371	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.4
10°-20°	194.4	9.9
20°-30°	300.6	15.4
30°-40°	367.9	18.8
40°-50°	377.1	19.3
50°-60°	321.2	16.4
60°-70°	214.6	11.0
70°-80°	95.1	4.9
80°-90°	17.2	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°	561.8	28.7
0°-40°	929.7	47.6
0°-60°	1628.0	83.3
0°-90°	1954.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	703	702	703	703	701	67
15°	691	689	689	687	685	195
25°	660	658	654	646	642	305
35°	600	598	592	579	575	375
45°	496	497	494	483	478	383
55°	370	368	359	352	351	330
65°	229	228	215	206	204	226
75°	93	94	89	90	77	100
85°	14	14	12	12	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	703.4	702.2	704.2	704.9	701.5
5°	703.0	701.5	703.4	703.0	701.1
7.5°	701.8	699.1	701.1	700.3	699.5
10°	698.8	696.4	698.0	696.8	694.9
12.5°	694.5	693.0	694.1	693.0	690.3
15°	691.0	688.7	689.1	687.2	684.9
17.5°	686.4	682.9	682.9	679.1	676.4
20°	679.1	676.0	674.4	669.0	665.5
22.5°	670.6	668.2	665.2	658.2	654.3
25°	660.5	658.2	654.0	645.5	641.6
27.5°	648.9	645.8	641.2	631.2	626.5
30°	635.4	631.5	626.5	615.3	609.9
32.5°	618.8	616.1	609.5	597.9	592.9
35°	599.5	597.9	591.8	578.6	574.8
37.5°	579.8	576.7	571.3	557.4	553.5
40°	554.7	552.8	548.1	534.6	530.0
42.5°	527.6	526.5	522.6	509.9	504.9
45°	495.6	497.1	494.0	482.8	478.2
47.5°	465.1	464.3	463.1	453.1	449.2
50°	433.4	431.8	429.5	421.4	417.9
52.5°	403.7	400.6	394.4	387.4	385.1
55°	370.0	368.1	359.2	351.9	351.1
57.5°	336.1	334.9	324.1	315.6	315.6
60°	301.3	299.7	287.8	278.9	278.1
62.5°	265.0	263.8	251.5	241.4	241.8
65°	229.4	227.5	215.2	205.5	203.6
67.5°	192.4	191.6	179.6	170.7	170.0
70°	155.3	155.3	145.6	137.9	159.9
72.5°	122.4	121.3	113.6	110.1	105.1
75°	92.7	93.9	89.2	89.6	77.3
77.5°	66.1	64.1	62.2	57.9	61.4
80°	44.8	43.6	39.8	38.6	40.6
82.5°	27.8	28.2	24.7	22.4	22.0
85°	14.3	13.9	12.0	11.6	11.2
87.5°	5.4	5.8	5.0	4.6	4.2
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)