

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: P505829

Luminaire Tested: **14PD-20-PW1-L840**

Issue Date: 3/26/2021



**Test Information**

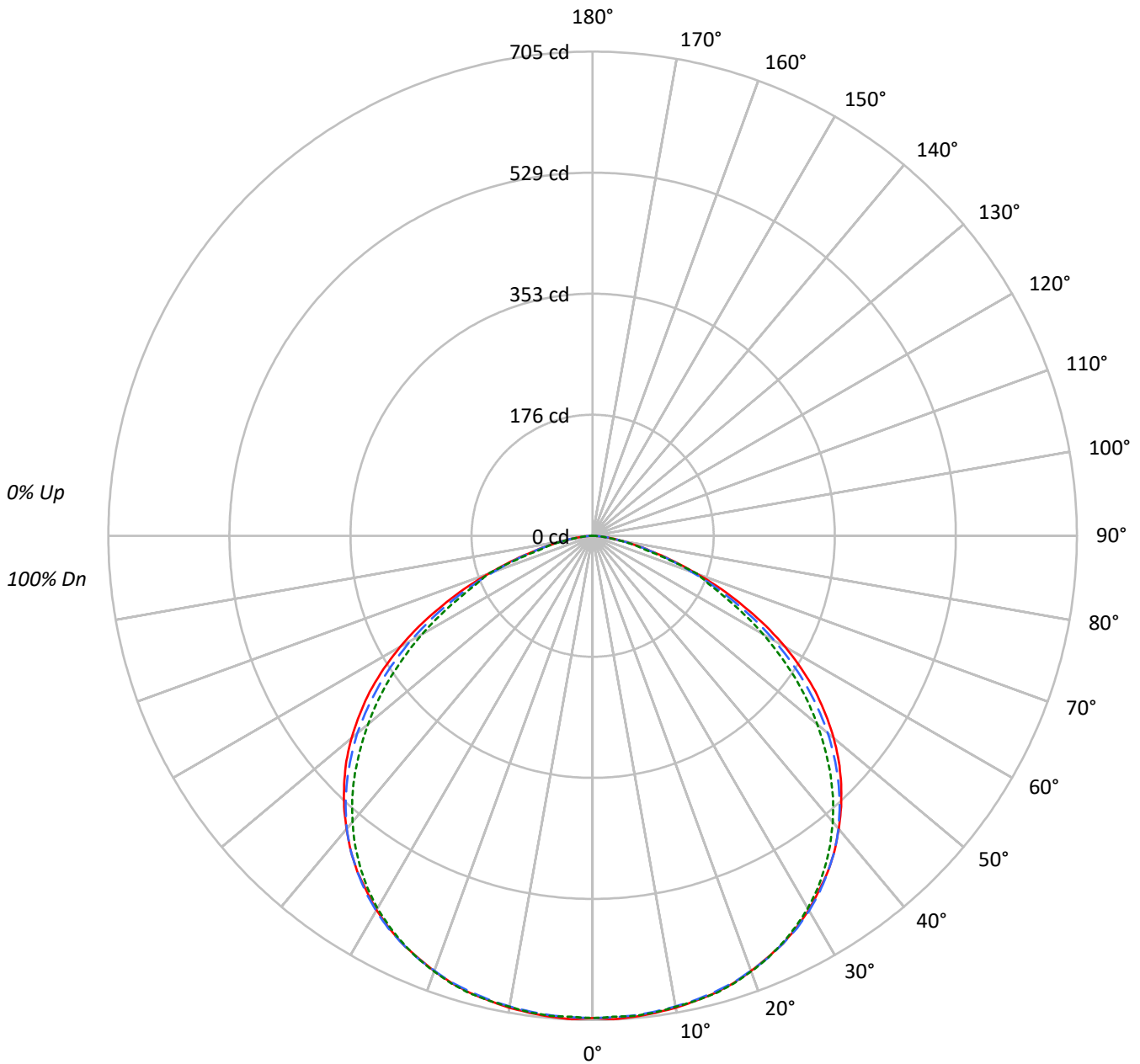
Test Method: LM-79-08  
Report Number: P505829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-20-PW1-L840  
Description: 2000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1999.9 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42  
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<sub>in</sub>): 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	97	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	77	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1890	1890	1890
5°	1899	1894	1896
10°	1907	1902	1903
15°	1920	1915	1922
20°	1931	1930	1934
25°	1946	1946	1942
30°	1955	1959	1946
35°	1961	1961	1937
40°	1958	1956	1910
45°	1947	1925	1862
50°	1918	1871	1786
55°	1859	1780	1683
60°	1741	1645	1542
65°	1542	1453	1358
70°	1259	1202	1268
75°	949	933	838
80°	683	640	640
85°	429	404	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	3.3
10°-20°	194.4	9.7
20°-30°	301.8	15.1
30°-40°	371.7	18.6
40°-50°	386.9	19.3
50°-60°	336.5	16.8
60°-70°	226.1	11.3
70°-80°	97.9	4.9
80°-90°	18.0	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°	562.9	28.1
0°-40°	934.6	46.7
0°-60°	1658.0	82.9
0°-90°	1999.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	703	699	701	703	702	67
15°	689	684	688	690	690	195
25°	655	652	655	655	654	302
35°	597	595	597	592	590	373
45°	512	510	506	494	489	394
55°	396	389	380	364	359	352
65°	242	238	228	218	213	240
75°	91	92	90	92	81	101
85°	14	14	13	12	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	702.2	702.2	702.2	702.2	702.2
2.5°	704.6	700.2	701.8	704.2	701.0
5°	703.0	698.6	701.0	702.6	701.8
7.5°	700.6	697.5	698.6	700.2	699.8
10°	697.8	694.7	695.9	697.5	696.3
12.5°	693.5	689.9	692.3	693.9	693.5
15°	689.1	684.4	687.5	689.9	689.9
17.5°	682.8	678.8	682.0	684.0	683.6
20°	674.4	671.6	674.0	675.6	675.2
22.5°	664.9	662.9	665.7	665.7	665.7
25°	655.4	652.2	655.4	655.4	654.2
27.5°	643.1	640.3	644.3	643.1	641.1
30°	629.2	627.6	630.4	628.4	626.4
32.5°	612.9	612.1	614.9	610.9	609.3
35°	597.0	595.4	597.0	591.9	589.5
37.5°	578.4	576.8	578.4	571.6	568.0
40°	557.3	556.1	556.9	548.2	543.8
42.5°	535.5	534.3	532.3	521.6	518.0
45°	511.7	510.1	505.7	494.2	489.4
47.5°	486.3	483.5	477.1	464.8	458.5
50°	458.1	454.1	447.0	433.5	426.7
52.5°	427.5	422.8	413.6	400.1	393.8
55°	396.2	389.0	379.5	364.4	358.8
57.5°	360.4	352.9	343.0	329.1	322.7
60°	323.5	316.0	305.7	293.0	286.6
62.5°	284.2	277.5	267.2	255.2	249.7
65°	242.1	237.8	228.2	217.5	213.2
67.5°	202.4	198.1	190.1	181.0	182.6
70°	160.0	159.6	152.8	146.5	161.2
72.5°	124.6	123.9	120.3	117.1	116.3
75°	91.3	92.1	89.7	91.7	80.6
77.5°	64.3	65.1	64.7	59.1	61.9
80°	44.1	44.1	41.3	39.3	41.3
82.5°	26.6	31.8	28.6	23.4	22.6
85°	13.9	14.3	13.1	11.5	11.5
87.5°	5.2	6.0	5.2	4.8	4.4
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)