

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: P505963

Luminaire Tested: **14PD-45-PW1-L835**

Issue Date: 3/26/2021

**Test Information**

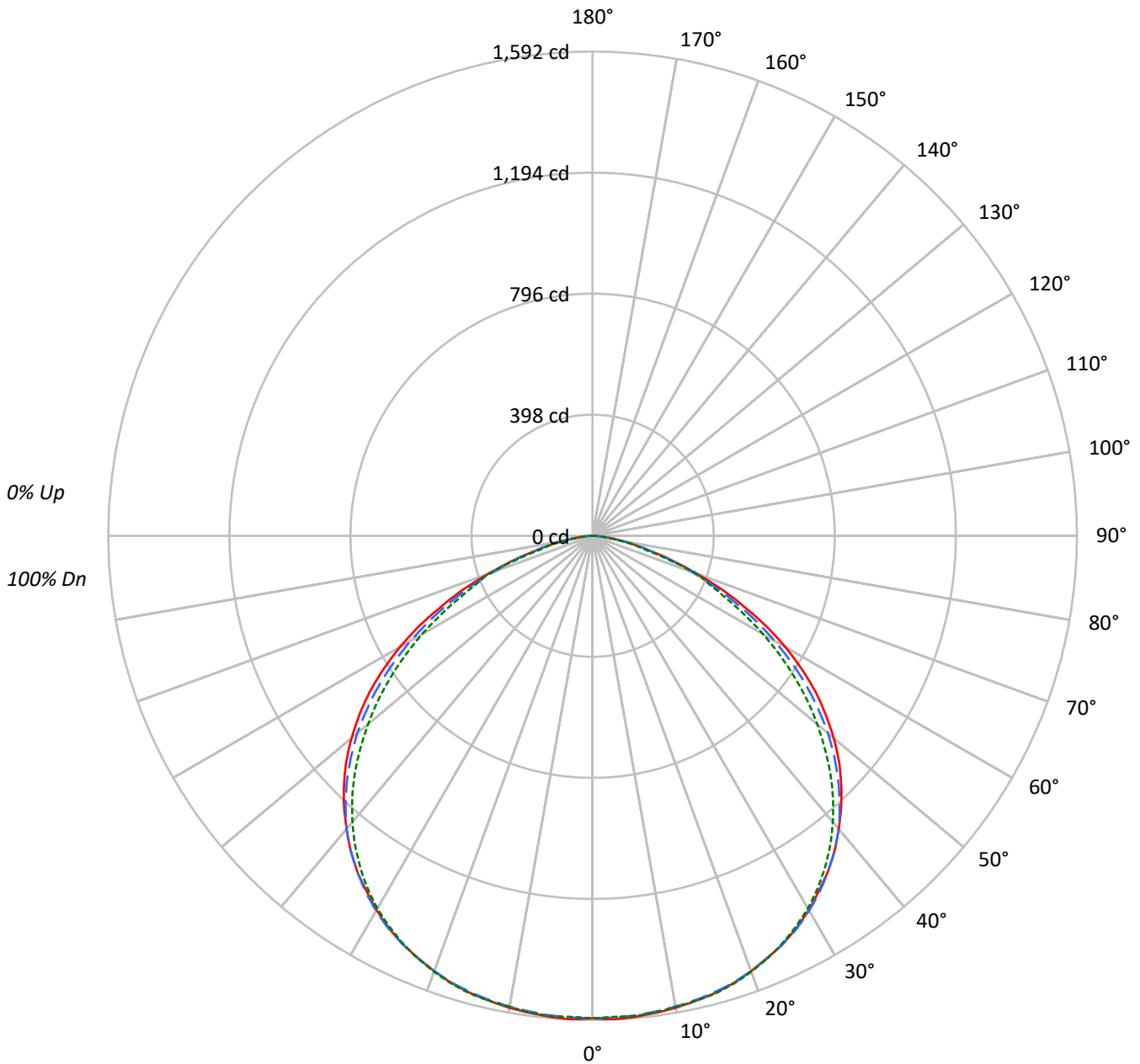
Test Method: LM-79-08  
Report Number: P505963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PW1-L835  
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3500K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4517.4 lumens  
Efficiency: N/A  
Efficacy: 105.3 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): 42.9  
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°	4268	4268	4268
5°	4290	4277	4282
10°	4307	4295	4297
15°	4337	4327	4342
20°	4363	4360	4368
25°	4396	4396	4388
30°	4416	4424	4396
35°	4430	4430	4374
40°	4422	4419	4315
45°	4399	4347	4207
50°	4332	4227	4035
55°	4198	4022	3803
60°	3933	3716	3484
65°	3483	3283	3066
70°	2843	2716	2864
75°	2144	2106	1892
80°	1542	1446	1446
85°	969	914	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.8	3.3
10°-20°	439.1	9.7
20°-30°	681.6	15.1
30°-40°	839.5	18.6
40°-50°	874.0	19.3
50°-60°	760.1	16.8
60°-70°	510.6	11.3
70°-80°	221.0	4.9
80°-90°	40.6	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°	1271.5	28.1
0°-40°	2111.0	46.7
0°-60°	3745.1	82.9
0°-90°	4517.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1588	1578	1584	1587	1585	151
15°	1557	1546	1553	1558	1558	440
25°	1480	1473	1480	1480	1478	682
35°	1348	1345	1348	1337	1332	843
45°	1156	1152	1142	1116	1106	890
55°	895	879	857	823	811	795
65°	547	537	516	491	482	542
75°	206	208	203	207	182	227
85°	31	32	30	26	26	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1586.2	1586.2	1586.2	1586.2	1586.2
2.5°	1591.5	1581.7	1585.3	1590.6	1583.5
5°	1588.0	1578.1	1583.5	1587.1	1585.3
7.5°	1582.6	1575.4	1578.1	1581.7	1580.8
10°	1576.3	1569.1	1571.8	1575.4	1572.7
12.5°	1566.4	1558.4	1563.7	1567.3	1566.4
15°	1556.6	1545.8	1553.0	1558.4	1558.4
17.5°	1542.2	1533.3	1540.4	1544.9	1544.0
20°	1523.4	1517.1	1522.5	1526.1	1525.2
22.5°	1501.9	1497.4	1503.7	1503.7	1503.7
25°	1480.4	1473.2	1480.4	1480.4	1477.7
27.5°	1452.6	1446.3	1455.3	1452.6	1448.1
30°	1421.2	1417.6	1423.9	1419.4	1414.9
32.5°	1384.4	1382.6	1388.9	1379.9	1376.3
35°	1348.5	1345.0	1348.5	1336.9	1331.5
37.5°	1306.4	1302.8	1306.4	1291.2	1283.1
40°	1258.9	1256.2	1258.0	1238.3	1228.4
42.5°	1209.6	1206.9	1202.4	1178.2	1170.1
45°	1155.8	1152.2	1142.3	1116.3	1105.6
47.5°	1098.4	1092.1	1077.8	1050.0	1035.6
50°	1034.7	1025.8	1009.6	979.1	963.9
52.5°	965.7	954.9	934.3	903.8	889.5
55°	894.8	878.7	857.2	823.1	810.6
57.5°	814.2	797.1	774.7	743.3	729.0
60°	730.8	713.7	690.4	661.7	647.4
62.5°	642.0	626.8	603.4	576.5	564.0
65°	547.0	537.1	515.6	491.4	481.5
67.5°	457.3	447.4	429.5	408.9	412.5
70°	361.3	360.5	345.2	330.9	364.0
72.5°	281.5	279.8	271.7	264.5	262.7
75°	206.2	208.0	202.6	207.1	182.0
77.5°	145.3	147.0	146.2	133.6	139.9
80°	99.5	99.5	93.3	88.8	93.3
82.5°	60.1	71.7	64.6	52.9	51.1
85°	31.4	32.3	29.6	26.0	26.0
87.5°	11.7	13.4	11.7	10.8	9.9
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)