

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: P505955

Luminaire Tested: **14PD-45-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505955
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-45-PR1-L840
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

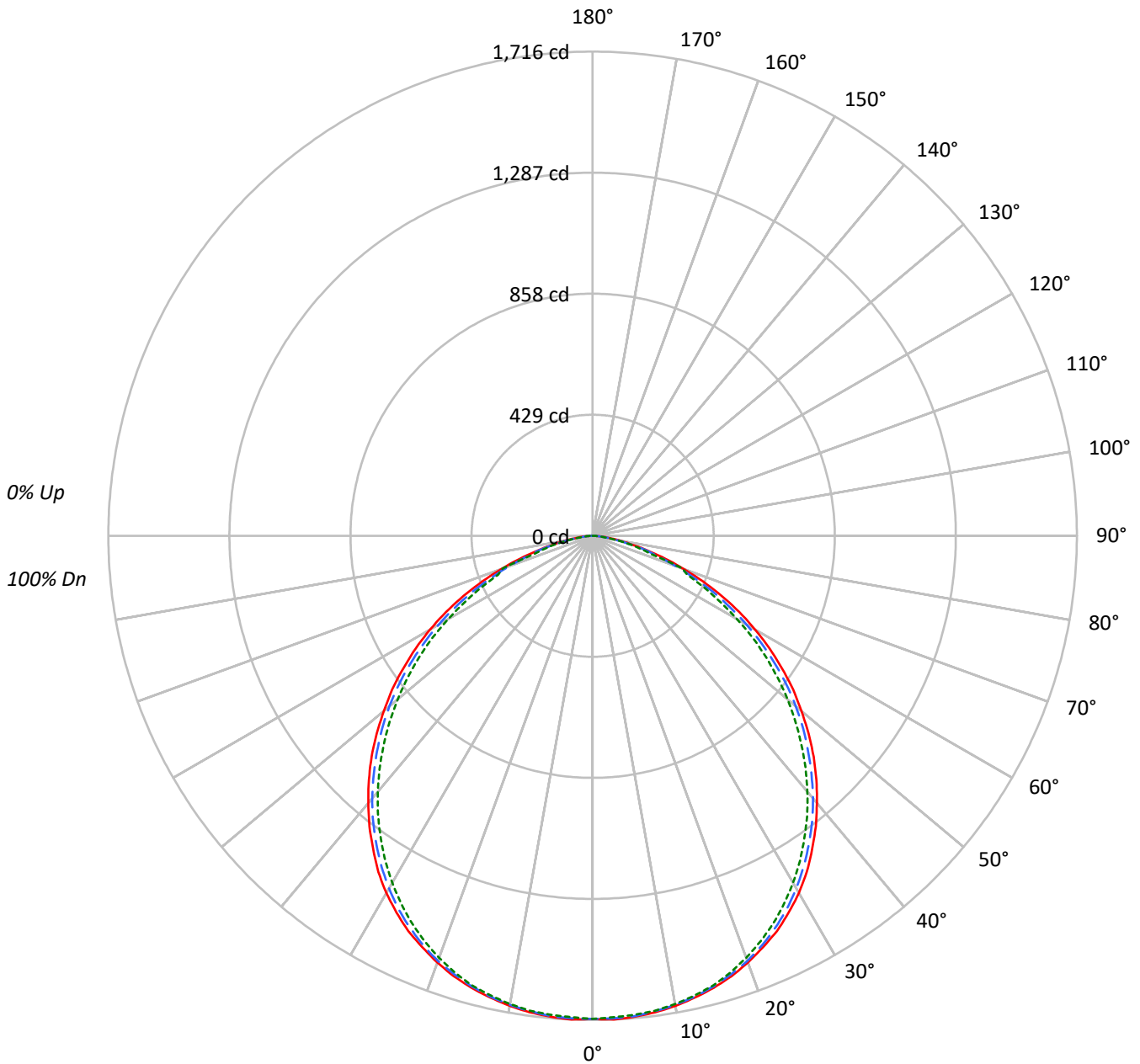
Lumens per Lamp: N/A
Luminaire Lumens: 4406.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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									
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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4607	4607	4607
5°	4622	4616	4604
10°	4623	4613	4604
15°	4621	4606	4597
20°	4609	4592	4558
25°	4590	4550	4499
30°	4543	4484	4414
35°	4454	4388	4298
40°	4343	4268	4158
45°	4214	4111	3982
50°	4040	3934	3774
55°	3843	3692	3517
60°	3578	3391	3181
65°	3212	2986	2791
70°	2702	2462	2662
75°	2080	2001	1799
80°	1499	1340	1275
85°	917	784	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	3.7
10°-20°	466.2	10.6
20°-30°	704.2	16.0
30°-40°	833.2	18.9
40°-50°	830.7	18.9
50°-60°	701.8	15.9
60°-70°	467.6	10.6
70°-80°	203.1	4.6
80°-90°	36.8	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°	1332.7	30.2
0°-40°	2165.9	49.2
0°-60°	3698.4	83.9
0°-90°	4406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1711	1704	1709	1707	1704	163
15°	1659	1651	1654	1651	1650	468
25°	1546	1536	1532	1519	1515	711
35°	1356	1347	1336	1318	1308	848
45°	1107	1097	1080	1057	1046	853
55°	819	813	787	762	750	731
65°	504	499	469	449	438	499
75°	200	196	192	186	173	219
85°	30	30	25	24	23	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.1	1712.1	1712.1	1712.1	1712.1
2.5°	1716.3	1708.7	1712.1	1712.1	1707.8
5°	1711.2	1704.4	1708.7	1707.0	1704.4
7.5°	1703.6	1696.8	1699.3	1698.5	1697.6
10°	1691.7	1684.9	1688.3	1686.6	1684.9
12.5°	1676.4	1669.7	1673.0	1670.5	1668.8
15°	1658.6	1651.0	1653.5	1651.0	1650.2
17.5°	1636.6	1629.0	1629.8	1626.4	1623.0
20°	1609.4	1602.7	1603.5	1595.0	1591.6
22.5°	1578.1	1571.3	1570.4	1559.4	1555.2
25°	1545.8	1535.7	1532.3	1518.7	1515.3
27.5°	1505.1	1495.8	1490.7	1476.3	1469.5
30°	1461.9	1451.7	1443.2	1427.1	1420.4
32.5°	1412.7	1402.5	1391.5	1374.6	1366.9
35°	1355.9	1346.6	1335.6	1317.7	1308.4
37.5°	1299.1	1288.9	1277.9	1256.7	1249.1
40°	1236.3	1227.0	1215.1	1192.2	1183.8
42.5°	1173.6	1162.6	1148.2	1126.1	1116.8
45°	1107.4	1097.3	1080.3	1057.4	1046.4
47.5°	1037.9	1029.4	1011.6	987.0	975.2
50°	965.0	958.2	939.6	912.4	901.4
52.5°	895.5	886.1	864.9	837.8	825.9
55°	819.1	813.2	786.9	761.5	749.6
57.5°	742.8	735.2	708.9	683.5	672.4
60°	664.8	658.0	630.0	604.6	591.0
62.5°	585.9	578.3	548.6	525.7	513.0
65°	504.5	498.6	468.9	448.6	438.4
67.5°	423.1	418.9	387.5	370.6	362.9
70°	343.4	337.5	312.9	306.1	338.3
72.5°	269.7	262.0	240.8	229.8	221.3
75°	200.1	195.9	192.5	185.7	173.0
77.5°	140.8	139.9	128.0	118.7	128.0
80°	96.7	100.1	86.5	78.9	82.3
82.5°	59.4	66.1	51.7	45.8	44.1
85°	29.7	30.5	25.4	23.7	22.9
87.5°	11.0	12.7	11.0	9.3	9.3
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)