

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: P505956

Luminaire Tested: **14PD-45-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505956
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-L850
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

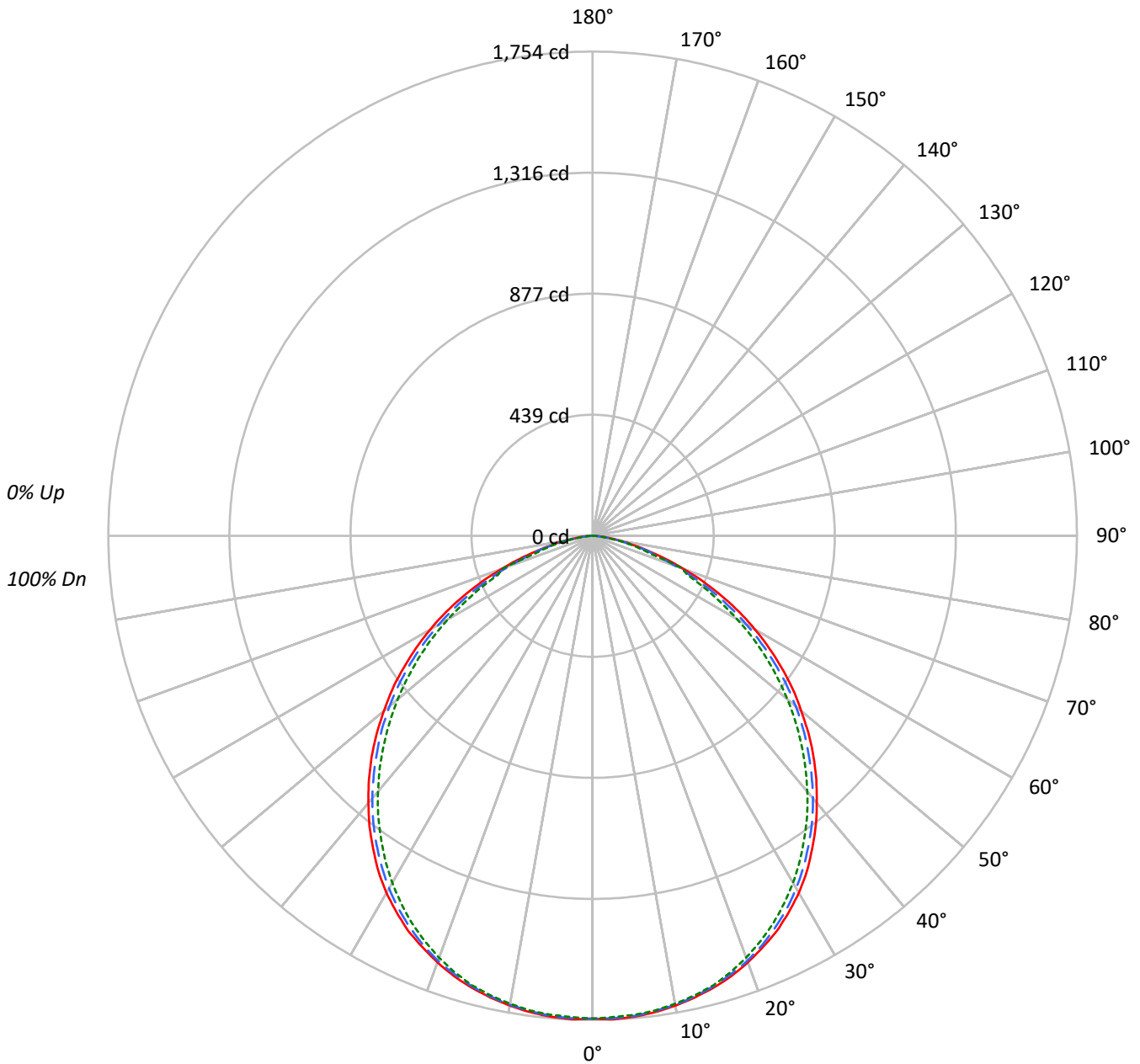
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4502.0 lumens
Efficiency: N/A
Efficacy: 104.9 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°	4708	4708	4708
5°	4723	4716	4705
10°	4723	4714	4704
15°	4722	4707	4697
20°	4709	4692	4657
25°	4690	4649	4597
30°	4642	4582	4510
35°	4551	4483	4392
40°	4438	4362	4249
45°	4306	4201	4069
50°	4128	4019	3856
55°	3927	3772	3593
60°	3656	3465	3250
65°	3282	3051	2853
70°	2761	2515	2720
75°	2126	2045	1838
80°	1531	1370	1302
85°	936	803	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.7
10°-20°	476.4	10.6
20°-30°	719.6	16.0
30°-40°	851.3	18.9
40°-50°	848.8	18.9
50°-60°	717.1	15.9
60°-70°	477.8	10.6
70°-80°	207.6	4.6
80°-90°	37.7	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°	1361.8	30.2
0°-40°	2213.1	49.2
0°-60°	3779.0	83.9
0°-90°	4502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1748	1742	1746	1744	1742	166
15°	1695	1687	1690	1687	1686	478
25°	1580	1569	1566	1552	1548	727
35°	1385	1376	1365	1346	1337	866
45°	1132	1121	1104	1080	1069	871
55°	837	831	804	778	766	747
65°	516	510	479	458	448	510
75°	204	200	197	190	177	223
85°	30	31	26	24	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1753.7	1745.9	1749.4	1749.4	1745.0
5°	1748.5	1741.6	1745.9	1744.2	1741.6
7.5°	1740.7	1733.8	1736.4	1735.5	1734.6
10°	1728.6	1721.6	1725.1	1723.4	1721.6
12.5°	1713.0	1706.0	1709.5	1706.9	1705.2
15°	1694.8	1687.0	1689.6	1687.0	1686.1
17.5°	1672.2	1664.4	1665.3	1661.8	1658.4
20°	1644.5	1637.6	1638.4	1629.8	1626.3
22.5°	1612.5	1605.5	1604.7	1593.4	1589.1
25°	1579.5	1569.1	1565.7	1551.8	1548.3
27.5°	1537.9	1528.4	1523.2	1508.5	1501.6
30°	1493.8	1483.4	1474.7	1458.2	1451.3
32.5°	1443.5	1433.1	1421.8	1404.5	1396.7
35°	1385.4	1375.9	1364.7	1346.5	1336.9
37.5°	1327.4	1317.0	1305.7	1284.1	1276.3
40°	1263.3	1253.7	1241.6	1218.2	1209.6
42.5°	1199.2	1187.9	1173.2	1150.6	1141.1
45°	1131.6	1121.2	1103.9	1080.5	1069.2
47.5°	1060.5	1051.9	1033.7	1008.5	996.4
50°	986.0	979.1	960.0	932.3	921.0
52.5°	915.0	905.4	883.8	856.0	843.9
55°	837.0	830.9	804.1	778.1	765.9
57.5°	759.0	751.2	724.3	698.4	687.1
60°	679.3	672.4	643.8	617.8	603.9
62.5°	598.7	590.9	560.6	537.2	524.2
65°	515.5	509.5	479.1	458.4	448.0
67.5°	432.4	428.0	396.0	378.6	370.8
70°	350.9	344.8	319.7	312.8	345.7
72.5°	275.5	267.7	246.1	234.8	226.1
75°	204.5	200.1	196.7	189.8	176.8
77.5°	143.8	143.0	130.8	121.3	130.8
80°	98.8	102.2	88.4	80.6	84.0
82.5°	60.7	67.6	52.9	46.8	45.1
85°	30.3	31.2	26.0	24.3	23.4
87.5°	11.3	13.0	11.3	9.5	9.5
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)