

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: P505953

Luminaire Tested: **14PD-45-PR1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505953
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-L830
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

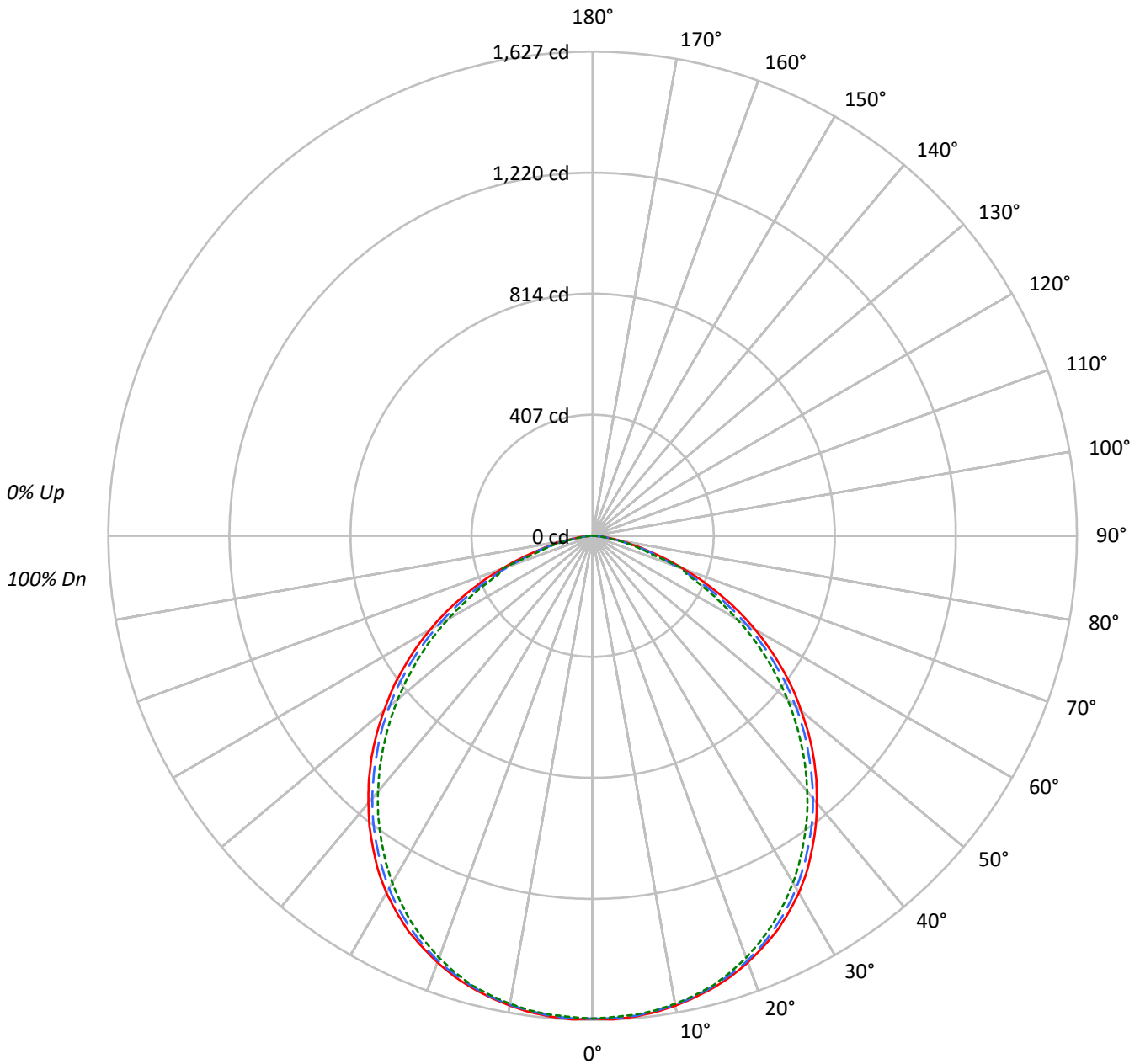
Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4367	4367	4367
5°	4381	4375	4364
10°	4381	4373	4364
15°	4379	4366	4357
20°	4368	4352	4320
25°	4350	4312	4264
30°	4305	4250	4183
35°	4222	4158	4074
40°	4116	4046	3941
45°	3994	3897	3774
50°	3829	3728	3576
55°	3643	3499	3333
60°	3391	3214	3015
65°	3045	2830	2646
70°	2561	2334	2523
75°	1972	1896	1705
80°	1420	1271	1209
85°	868	744	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.7
10°-20°	441.9	10.6
20°-30°	667.5	16.0
30°-40°	789.7	18.9
40°-50°	787.3	18.9
50°-60°	665.2	15.9
60°-70°	443.2	10.6
70°-80°	192.5	4.6
80°-90°	34.9	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°	1263.2	30.2
0°-40°	2052.8	49.2
0°-60°	3505.4	83.9
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1622	1615	1620	1618	1615	154
15°	1572	1565	1567	1565	1564	444
25°	1465	1456	1452	1439	1436	674
35°	1285	1276	1266	1249	1240	804
45°	1050	1040	1024	1002	992	808
55°	776	771	746	722	710	693
65°	478	473	444	425	416	473
75°	190	186	182	176	164	207
85°	28	29	24	22	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.7	1622.7	1622.7	1622.7	1622.7
2.5°	1626.7	1619.5	1622.7	1622.7	1618.7
5°	1621.9	1615.4	1619.5	1617.9	1615.4
7.5°	1614.6	1608.2	1610.6	1609.8	1609.0
10°	1603.4	1597.0	1600.2	1598.6	1597.0
12.5°	1588.9	1582.5	1585.7	1583.3	1581.7
15°	1572.0	1564.8	1567.2	1564.8	1564.0
17.5°	1551.2	1543.9	1544.7	1541.5	1538.3
20°	1525.4	1519.0	1519.8	1511.8	1508.6
22.5°	1495.7	1489.3	1488.5	1478.0	1474.0
25°	1465.2	1455.5	1452.3	1439.4	1436.2
27.5°	1426.6	1417.7	1412.9	1399.3	1392.8
30°	1385.6	1375.9	1367.9	1352.6	1346.2
32.5°	1339.0	1329.3	1318.9	1302.8	1295.6
35°	1285.1	1276.3	1265.8	1249.0	1240.1
37.5°	1231.3	1221.6	1211.2	1191.1	1183.9
40°	1171.8	1163.0	1151.7	1130.0	1122.0
42.5°	1112.3	1101.9	1088.2	1067.3	1058.5
45°	1049.6	1040.0	1023.9	1002.2	991.8
47.5°	983.7	975.7	958.8	935.5	924.3
50°	914.6	908.2	890.5	864.8	854.3
52.5°	848.7	839.9	819.8	794.1	782.8
55°	776.4	770.8	745.8	721.7	710.5
57.5°	704.0	696.8	671.9	647.8	637.3
60°	630.1	623.7	597.2	573.0	560.2
62.5°	555.4	548.1	520.0	498.3	486.2
65°	478.2	472.6	444.4	425.2	415.5
67.5°	401.0	397.0	367.3	351.2	344.0
70°	325.5	319.9	296.6	290.1	320.7
72.5°	255.6	248.3	228.3	217.8	209.8
75°	189.7	185.7	182.4	176.0	164.0
77.5°	133.4	132.6	121.4	112.5	121.4
80°	91.6	94.8	82.0	74.7	78.0
82.5°	56.3	62.7	49.0	43.4	41.8
85°	28.1	28.9	24.1	22.5	21.7
87.5°	10.4	12.1	10.4	8.8	8.8
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)