

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: P506295

Luminaire Tested: **22PD-45-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PL1-L830
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

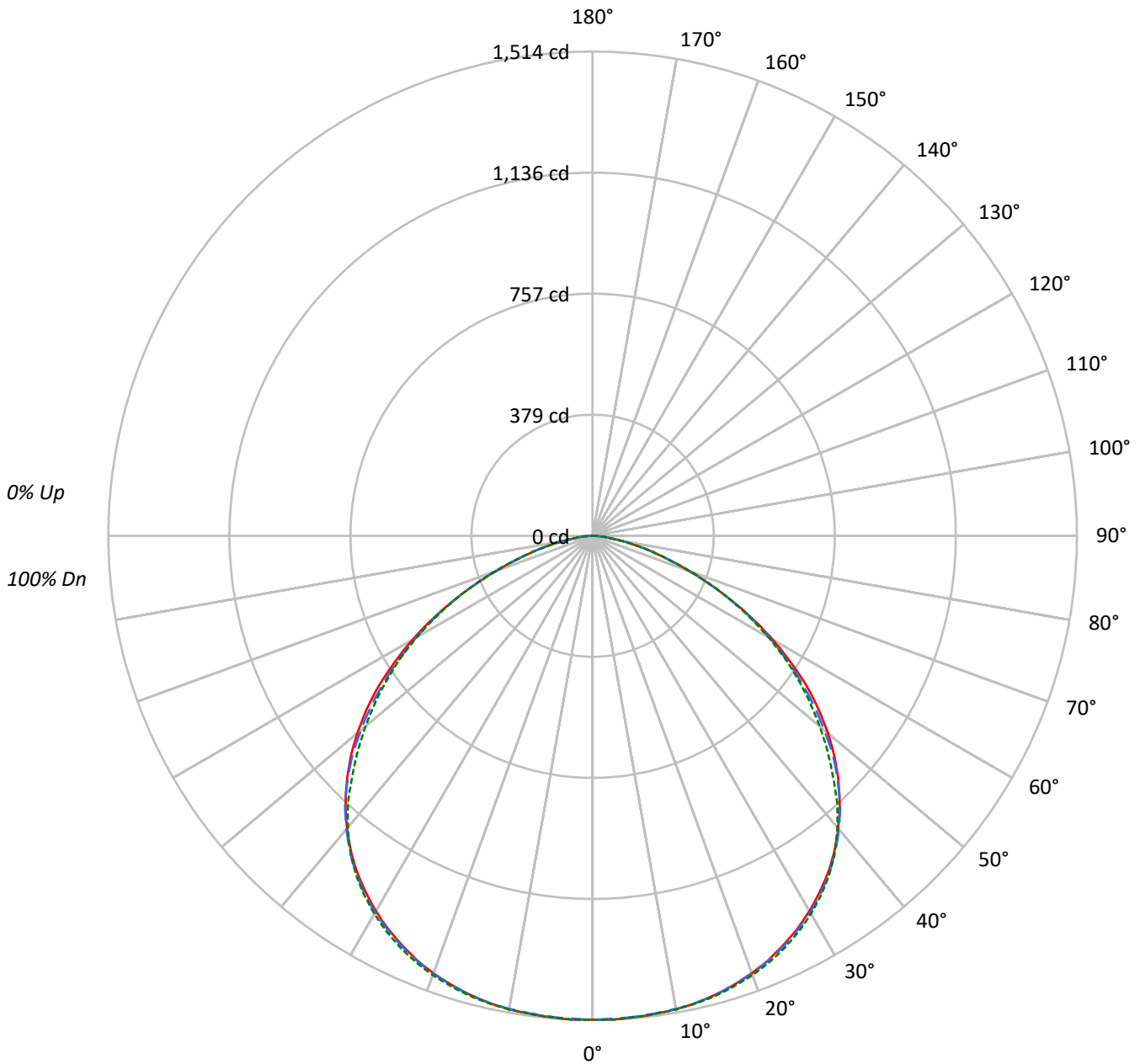
Lumens per Lamp: N/A
Luminaire Lumens: 4285.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	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	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4072	4072	4072
5°	4083	4079	4080
10°	4109	4104	4109
15°	4138	4138	4147
20°	4168	4173	4187
25°	4191	4200	4221
30°	4212	4225	4241
35°	4218	4232	4241
40°	4196	4207	4181
45°	4136	4124	4041
50°	4019	3957	3877
55°	3825	3727	3684
60°	3501	3435	3415
65°	3053	3047	3037
70°	2503	2544	2536
75°	1983	2016	1983
80°	1454	1444	1437
85°	969	954	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	3.4
10°-20°	419.8	9.8
20°-30°	652.6	15.2
30°-40°	804.5	18.8
40°-50°	831.0	19.4
50°-60°	711.0	16.6
60°-70°	474.6	11.1
70°-80°	208.2	4.9
80°-90°	40.3	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°	1216.3	28.4
0°-40°	2020.8	47.2
0°-60°	3562.8	83.1
0°-90°	4285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1512	1509	1510	1509	1510	144
15°	1485	1484	1485	1486	1489	420
25°	1411	1411	1415	1419	1422	651
35°	1284	1284	1288	1291	1291	802
45°	1087	1086	1084	1074	1062	837
55°	815	805	794	790	785	725
65°	480	478	478	480	477	476
75°	191	189	194	193	191	207
85°	31	31	31	32	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.1	1513.1	1513.1	1513.1	1513.1
2.5°	1514.2	1512.1	1511.5	1511.5	1514.2
5°	1511.5	1509.4	1509.9	1508.9	1510.5
7.5°	1507.8	1505.7	1506.2	1505.7	1507.8
10°	1503.6	1501.4	1502.0	1501.4	1503.6
12.5°	1496.1	1494.5	1495.6	1496.1	1497.7
15°	1485.4	1483.8	1485.4	1486.5	1488.6
17.5°	1471.6	1470.5	1472.1	1473.7	1476.4
20°	1455.6	1454.5	1457.2	1458.8	1462.0
22.5°	1435.9	1434.8	1437.5	1441.2	1443.3
25°	1411.4	1411.4	1414.6	1418.8	1421.5
27.5°	1385.3	1384.7	1388.5	1392.7	1395.4
30°	1355.4	1354.4	1359.7	1363.4	1365.0
32.5°	1320.8	1321.3	1326.1	1329.9	1330.4
35°	1284.0	1284.0	1288.3	1291.0	1291.0
37.5°	1241.9	1241.4	1245.7	1246.7	1245.1
40°	1194.5	1195.1	1197.7	1197.2	1190.3
42.5°	1143.4	1143.9	1146.0	1138.6	1131.7
45°	1086.9	1086.4	1083.7	1073.6	1061.9
47.5°	1026.7	1024.0	1019.8	1004.3	995.8
50°	960.1	955.8	945.2	932.9	926.0
52.5°	889.8	882.3	871.7	862.1	856.2
55°	815.2	805.1	794.4	790.1	785.3
57.5°	732.1	725.7	716.6	714.5	711.3
60°	650.5	643.6	638.3	638.3	634.6
62.5°	565.3	561.0	558.9	560.0	556.2
65°	479.5	478.5	478.5	480.0	476.9
67.5°	396.4	398.5	398.0	403.3	399.1
70°	318.1	321.8	323.4	328.7	322.3
72.5°	250.4	250.9	253.1	254.7	251.5
75°	190.7	189.1	193.9	192.9	190.7
77.5°	138.0	136.9	138.5	139.6	136.9
80°	93.8	92.7	93.2	94.8	92.7
82.5°	59.1	58.1	58.1	59.7	59.1
85°	31.4	30.9	30.9	32.0	33.0
87.5°	11.2	10.7	11.2	11.2	11.2
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)