

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: P506306

Luminaire Tested: **22PD-45-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PR1-L840
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

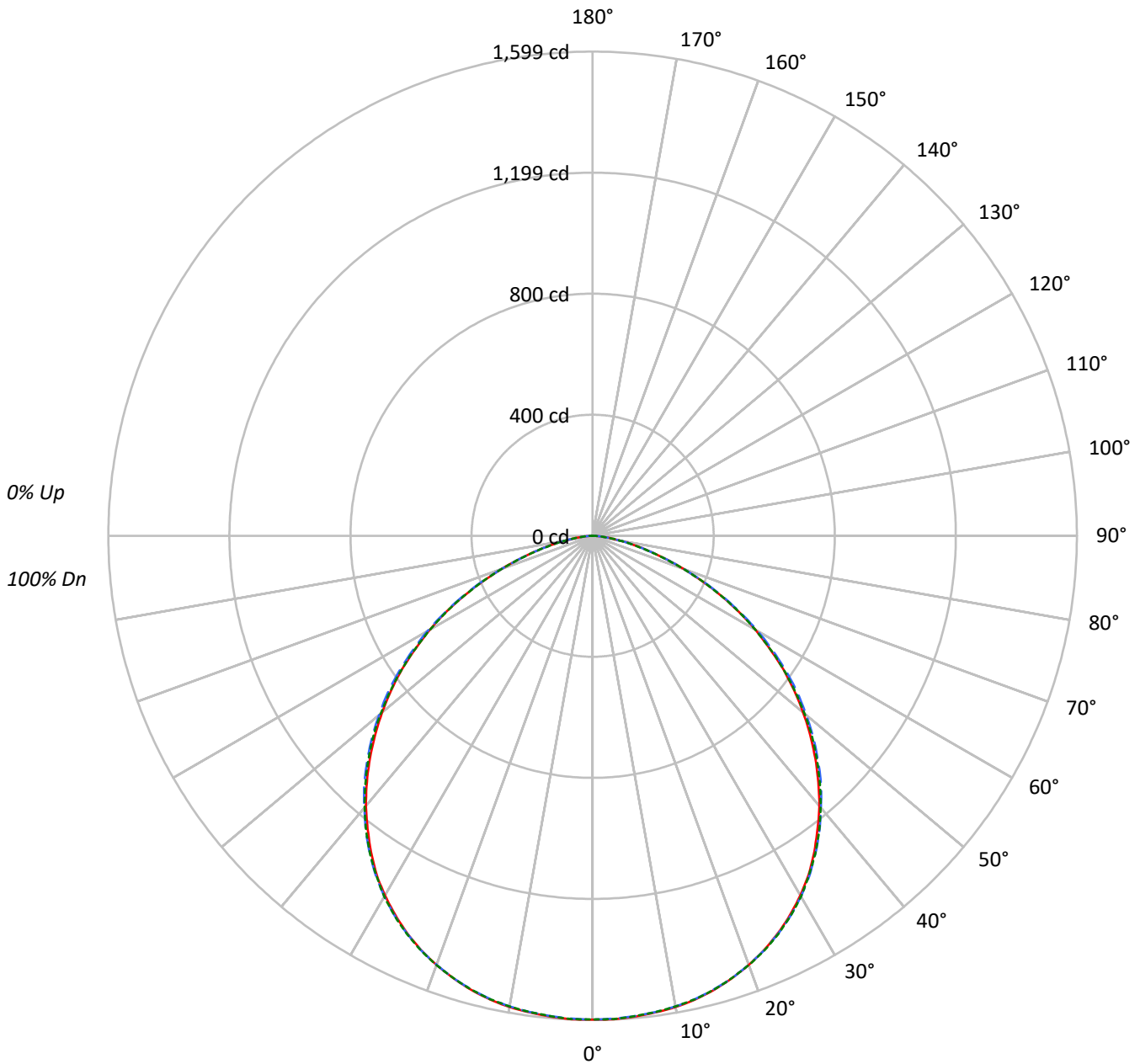
Lumens per Lamp: N/A
Luminaire Lumens: 4269.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P506306

CATALOG NUMBER: 22PD-45-PR1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P506306

CATALOG NUMBER: 22PD-45-PR1-L840

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	99	96	99	96	93	95	92	90	91	89	88	85																			
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36																			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4299	4299	4299
5°	4306	4303	4303
10°	4319	4313	4313
15°	4324	4320	4321
20°	4318	4317	4320
25°	4300	4304	4308
30°	4261	4274	4276
35°	4189	4212	4210
40°	4091	4119	4114
45°	3957	4008	3988
50°	3797	3855	3823
55°	3604	3661	3609
60°	3341	3387	3330
65°	2981	3011	2977
70°	2507	2507	2490
75°	1965	1965	1942
80°	1440	1423	1415
85°	939	939	957



TEST NUMBER: P506306

CATALOG NUMBER: 22PD-45-PR1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.6
10°-20°	437.8	10.3
20°-30°	667.8	15.6
30°-40°	800.4	18.7
40°-50°	808.3	18.9
50°-60°	691.6	16.2
60°-70°	466.4	10.9
70°-80°	205.8	4.8
80°-90°	39.5	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°	1257.2	29.4
0°-40°	2057.5	48.2
0°-60°	3557.4	83.3
0°-90°	4269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1594	1592	1593	1592	1593	152
15°	1552	1552	1551	1550	1551	438
25°	1448	1450	1450	1450	1451	667
35°	1275	1283	1282	1281	1282	797
45°	1040	1048	1053	1052	1048	801
55°	768	775	780	779	769	684
65°	468	472	473	472	468	463
75°	189	190	189	190	187	206
85°	30	30	30	31	31	39
90°	0	0	0	0	0	



TEST NUMBER: P506306

CATALOG NUMBER: 22PD-45-PR1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.6	1597.6	1597.6	1597.6	1597.6
2.5°	1598.7	1596.5	1596.0	1595.5	1597.6
5°	1593.9	1591.7	1592.8	1591.7	1592.8
7.5°	1588.0	1585.9	1586.4	1585.3	1586.4
10°	1580.5	1578.4	1578.4	1577.3	1578.4
12.5°	1568.8	1567.2	1566.6	1565.6	1567.2
15°	1552.2	1551.7	1550.6	1550.1	1551.2
17.5°	1531.9	1530.9	1531.9	1530.3	1531.4
20°	1507.9	1508.5	1507.4	1507.9	1508.5
22.5°	1480.7	1480.7	1481.2	1481.2	1482.3
25°	1448.1	1449.7	1449.7	1449.7	1450.8
27.5°	1411.8	1414.0	1415.6	1414.5	1415.6
30°	1371.3	1375.0	1375.6	1375.0	1376.1
32.5°	1327.5	1330.2	1331.8	1330.7	1329.6
35°	1275.2	1282.7	1282.1	1281.1	1281.6
37.5°	1220.2	1227.7	1230.4	1228.2	1228.8
40°	1164.7	1171.1	1172.7	1173.2	1171.1
42.5°	1103.3	1110.8	1116.7	1114.0	1110.8
45°	1039.8	1047.8	1053.1	1051.5	1047.8
47.5°	974.1	981.6	989.1	986.4	982.7
50°	906.9	914.4	920.8	919.7	913.3
52.5°	838.0	846.6	852.4	850.3	841.8
55°	768.1	775.0	780.4	779.3	769.2
57.5°	692.3	701.4	704.1	702.5	695.0
60°	620.8	626.7	629.3	627.2	618.7
62.5°	544.5	549.3	551.4	550.9	545.0
65°	468.1	471.9	472.9	471.9	467.6
67.5°	389.7	395.0	395.5	395.5	391.3
70°	318.7	320.3	318.7	322.9	316.5
72.5°	249.8	250.9	249.8	249.8	247.1
75°	189.0	189.5	189.0	189.5	186.8
77.5°	136.6	137.7	135.6	137.2	134.5
80°	92.9	92.9	91.8	92.3	91.3
82.5°	57.6	58.7	57.1	57.1	56.6
85°	30.4	30.4	30.4	31.0	31.0
87.5°	10.7	10.7	11.2	11.2	10.7
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)