

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: P505964

Luminaire Tested: **14PD-45-PW1-L840**

Issue Date: 3/26/2021

Test Information

Test Method: LM-79-08
Report Number: P505964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PW1-L840
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

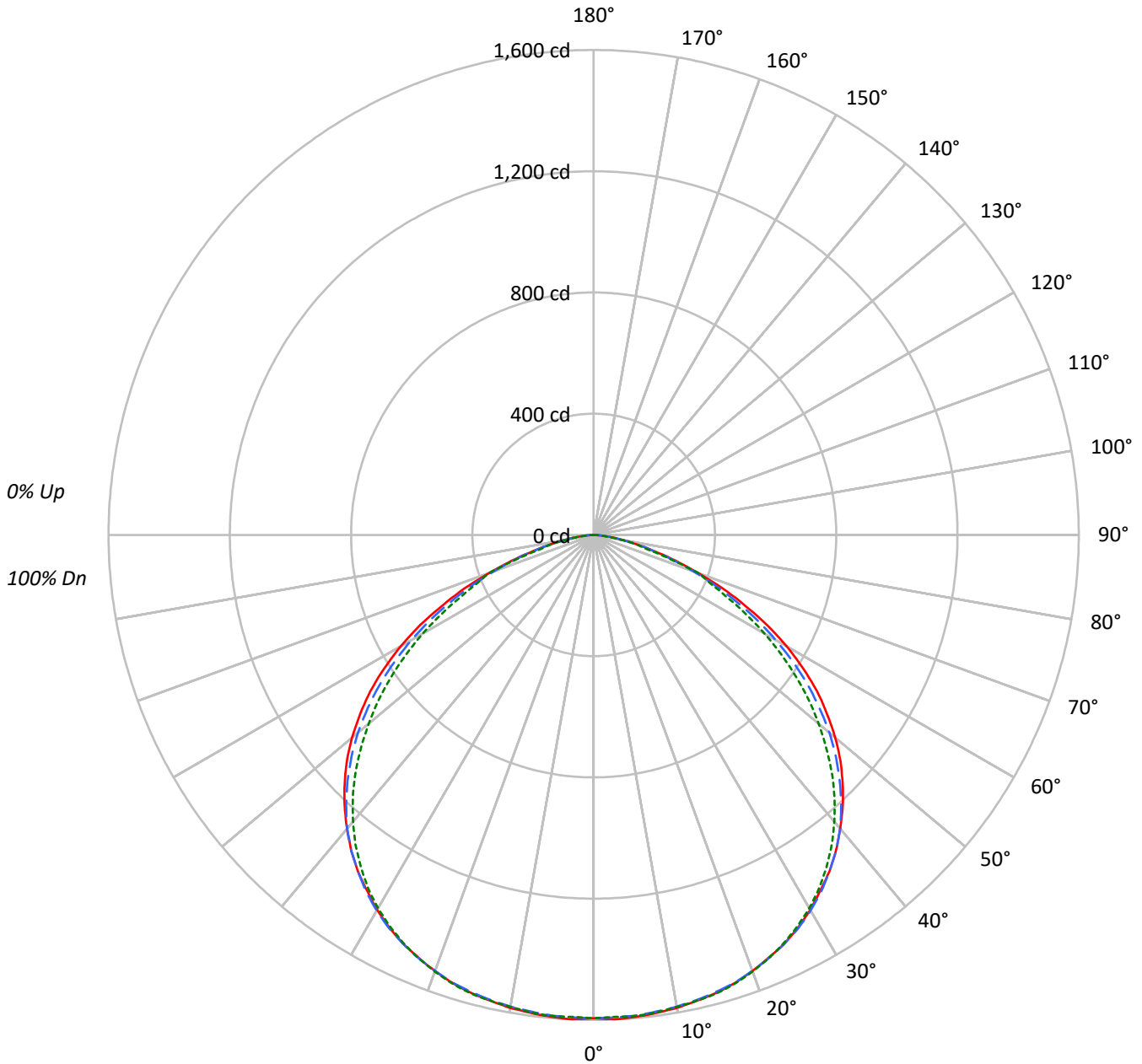
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4540.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42
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

TEST NUMBER: P505964
CATALOG NUMBER: 14PD-45-PW1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P505964

CATALOG NUMBER: 14PD-45-PW1-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	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	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4311	4299	4304
10°	4329	4317	4320
15°	4359	4349	4364
20°	4385	4382	4390
25°	4418	4418	4410
30°	4438	4447	4419
35°	4453	4453	4396
40°	4445	4442	4337
45°	4421	4370	4229
50°	4354	4248	4056
55°	4220	4042	3822
60°	3953	3735	3502
65°	3501	3300	3082
70°	2858	2730	2879
75°	2155	2118	1902
80°	1550	1452	1452
85°	973	917	806



TEST NUMBER: P505964

CATALOG NUMBER: 14PD-45-PW1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.3
10°-20°	441.3	9.7
20°-30°	685.1	15.1
30°-40°	843.8	18.6
40°-50°	878.5	19.3
50°-60°	764.0	16.8
60°-70°	513.3	11.3
70°-80°	222.2	4.9
80°-90°	40.8	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°	1278.0	28.1
0°-40°	2121.8	46.7
0°-60°	3764.3	82.9
0°-90°	4540.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4540.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1596	1586	1592	1595	1593	152
15°	1564	1554	1561	1566	1566	442
25°	1488	1481	1488	1488	1485	686
35°	1356	1352	1356	1344	1338	847
45°	1162	1158	1148	1122	1111	895
55°	899	883	862	827	815	799
65°	550	540	518	494	484	544
75°	207	209	204	208	183	228
85°	32	32	30	26	26	42
90°	0	0	0	0	0	



TEST NUMBER: P505964

CATALOG NUMBER: 14PD-45-PW1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.3	1594.3	1594.3	1594.3	1594.3
2.5°	1599.7	1589.8	1593.4	1598.8	1591.6
5°	1596.1	1586.2	1591.6	1595.2	1593.4
7.5°	1590.7	1583.5	1586.2	1589.8	1588.9
10°	1584.4	1577.2	1579.9	1583.5	1580.8
12.5°	1574.4	1566.3	1571.7	1575.4	1574.4
15°	1564.5	1553.7	1560.9	1566.3	1566.3
17.5°	1550.1	1541.1	1548.3	1552.8	1551.9
20°	1531.2	1524.9	1530.3	1533.9	1533.0
22.5°	1509.6	1505.1	1511.4	1511.4	1511.4
25°	1487.9	1480.7	1487.9	1487.9	1485.2
27.5°	1460.0	1453.7	1462.7	1460.0	1455.5
30°	1428.4	1424.8	1431.2	1426.6	1422.1
32.5°	1391.5	1389.7	1396.0	1387.0	1383.4
35°	1355.5	1351.8	1355.5	1343.7	1338.3
37.5°	1313.1	1309.5	1313.1	1297.8	1289.7
40°	1265.3	1262.6	1264.4	1244.6	1234.7
42.5°	1215.8	1213.1	1208.5	1184.2	1176.1
45°	1161.7	1158.1	1148.2	1122.0	1111.2
47.5°	1104.0	1097.7	1083.3	1055.3	1040.9
50°	1040.0	1031.0	1014.8	984.1	968.8
52.5°	970.6	959.8	939.1	908.4	894.0
55°	899.4	883.2	861.6	827.3	814.7
57.5°	818.3	801.2	778.7	747.1	732.7
60°	734.5	717.4	693.9	665.1	650.7
62.5°	645.3	630.0	606.5	579.5	566.9
65°	549.8	539.8	518.2	493.9	484.0
67.5°	459.6	449.7	431.7	411.0	414.6
70°	363.2	362.3	347.0	332.6	365.9
72.5°	283.0	281.2	273.1	265.9	264.1
75°	207.3	209.1	203.7	208.2	182.9
77.5°	146.0	147.8	146.9	134.3	140.6
80°	100.0	100.0	93.7	89.2	93.7
82.5°	60.4	72.1	64.9	53.2	51.4
85°	31.5	32.4	29.7	26.1	26.1
87.5°	11.7	13.5	11.7	10.8	9.9
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)