

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: P506671

Luminaire Tested: **24PD-45-PW1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PW1-L940
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

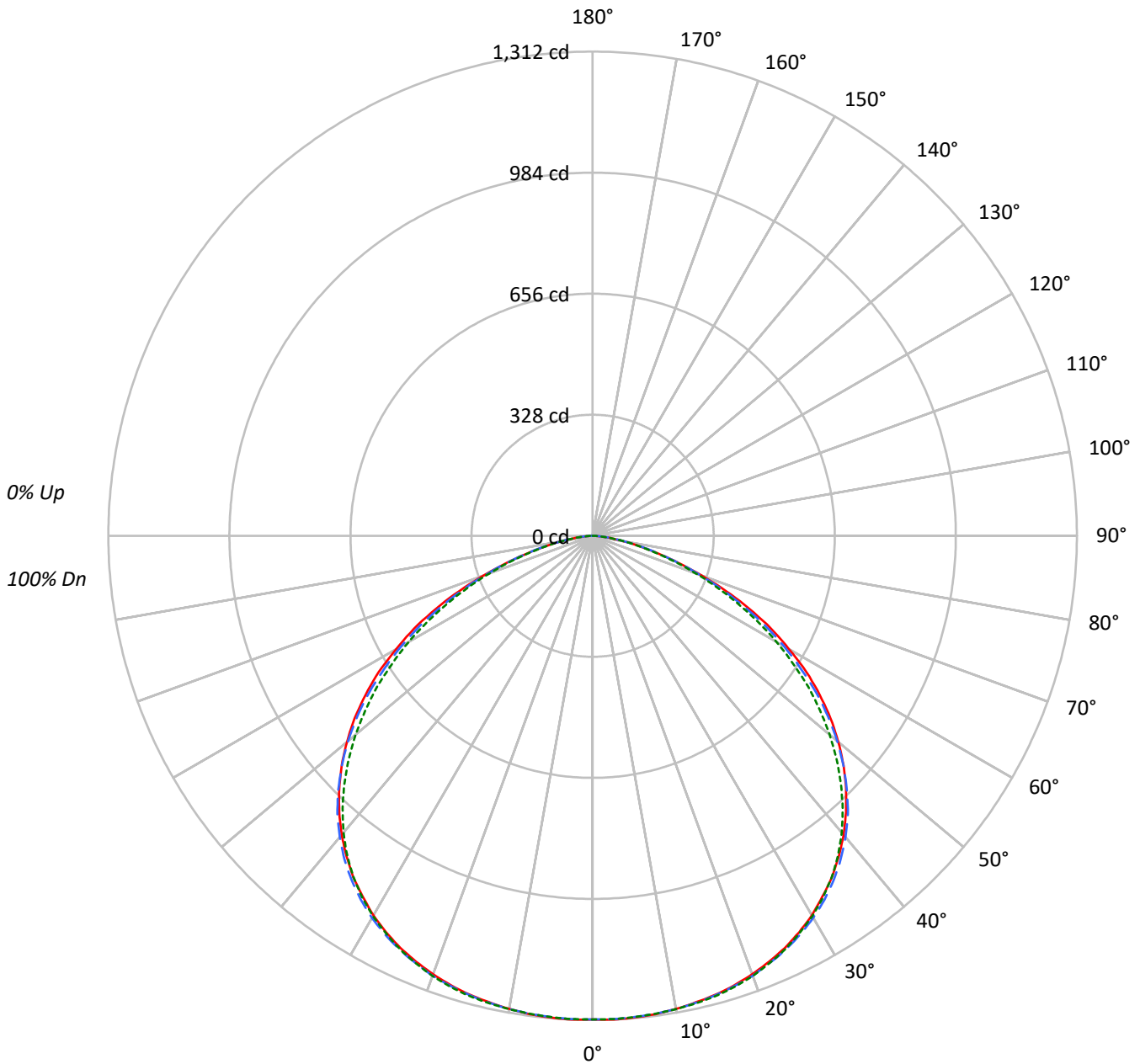
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P506671
CATALOG NUMBER: 24PD-45-PW1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P506671

CATALOG NUMBER: 24PD-45-PW1-L940

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1764	1764	1764
5°	1770	1768	1768
10°	1779	1779	1779
15°	1793	1795	1798
20°	1810	1816	1817
25°	1829	1837	1835
30°	1846	1858	1849
35°	1856	1871	1854
40°	1858	1872	1844
45°	1847	1854	1810
50°	1819	1810	1753
55°	1761	1732	1670
60°	1653	1611	1548
65°	1491	1436	1378
70°	1229	1211	1166
75°	940	949	911
80°	652	672	658
85°	391	406	395



TEST NUMBER: P506671

CATALOG NUMBER: 24PD-45-PW1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.2
10°-20°	364.4	9.5
20°-30°	569.9	14.8
30°-40°	708.9	18.4
40°-50°	745.0	19.4
50°-60°	653.9	17.0
60°-70°	445.3	11.6
70°-80°	196.4	5.1
80°-90°	35.4	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°	1059.1	27.6
0°-40°	1768.0	46.0
0°-60°	3166.9	82.4
0°-90°	3844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1310	1310	1309	1308	1309	125
15°	1287	1289	1288	1288	1291	364
25°	1232	1235	1238	1237	1236	568
35°	1130	1135	1139	1133	1129	706
45°	971	977	974	958	951	748
55°	751	748	738	719	712	669
65°	468	457	451	441	433	462
75°	181	182	183	179	175	198
85°	25	26	26	26	26	35
90°	0	0	0	0	0	



TEST NUMBER: P506671

CATALOG NUMBER: 24PD-45-PW1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.8	1310.8	1310.8	1310.8	1310.8
2.5°	1312.3	1311.6	1310.8	1309.7	1310.8
5°	1310.5	1310.1	1309.0	1307.5	1309.0
7.5°	1307.5	1307.5	1306.4	1305.3	1306.1
10°	1302.0	1303.1	1302.0	1300.9	1302.4
12.5°	1294.7	1296.6	1296.2	1296.2	1297.3
15°	1287.4	1288.9	1288.5	1288.5	1291.1
17.5°	1277.2	1279.0	1279.4	1280.1	1281.6
20°	1264.4	1266.9	1268.4	1268.0	1269.1
22.5°	1249.3	1252.3	1253.4	1254.1	1253.4
25°	1232.1	1235.4	1237.6	1236.9	1235.8
27.5°	1211.3	1214.9	1217.9	1216.0	1213.9
30°	1187.9	1191.2	1195.6	1192.3	1190.1
32.5°	1159.0	1165.2	1169.2	1165.2	1161.9
35°	1130.0	1135.2	1138.8	1133.3	1129.0
37.5°	1094.9	1101.1	1104.4	1096.7	1092.0
40°	1058.0	1064.2	1066.0	1056.1	1049.9
42.5°	1015.9	1022.8	1023.6	1009.7	1002.7
45°	970.9	977.1	974.5	958.4	951.1
47.5°	922.2	926.6	921.1	904.6	896.6
50°	868.8	871.3	864.7	845.3	837.7
52.5°	812.4	812.0	803.6	784.2	775.8
55°	750.6	747.6	738.5	719.1	712.1
57.5°	687.3	678.1	668.2	651.8	642.6
60°	614.4	607.5	598.7	582.2	575.3
62.5°	545.6	533.2	525.9	511.2	505.0
65°	468.4	457.1	451.2	441.3	432.9
67.5°	390.8	382.0	378.0	371.1	363.4
70°	312.5	310.0	307.8	301.2	296.4
72.5°	243.4	242.6	242.3	238.6	233.8
75°	180.8	181.9	182.6	179.3	175.3
77.5°	128.8	130.6	130.3	128.4	127.3
80°	84.2	85.6	86.7	84.9	84.9
82.5°	50.9	52.3	52.0	52.7	51.2
85°	25.3	26.3	26.3	26.0	25.6
87.5°	9.1	9.5	9.1	9.5	9.1
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)