

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: P506666

Luminaire Tested: **24PD-45-PW1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506666
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-L840
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

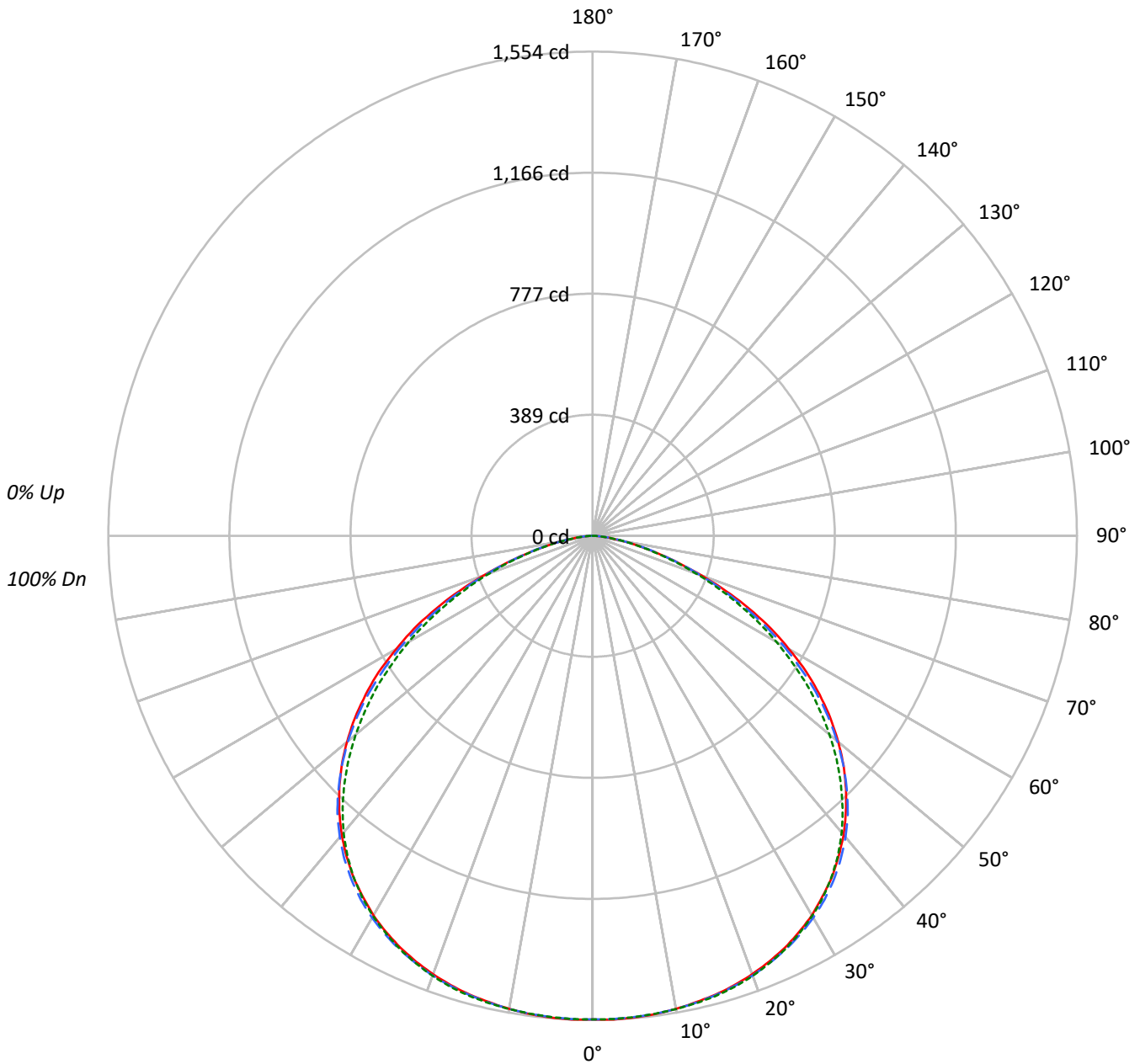
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4552.5 lumens
Efficiency: N/A
Efficacy: 138.0 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

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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	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°	2089	2089	2089
5°	2096	2094	2094
10°	2107	2107	2107
15°	2124	2126	2130
20°	2144	2151	2152
25°	2166	2176	2173
30°	2186	2200	2190
35°	2198	2215	2196
40°	2201	2217	2184
45°	2188	2196	2143
50°	2154	2144	2076
55°	2085	2052	1978
60°	1958	1908	1833
65°	1766	1701	1632
70°	1456	1434	1381
75°	1113	1124	1079
80°	773	796	779
85°	462	482	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.2
10°-20°	431.6	9.5
20°-30°	675.0	14.8
30°-40°	839.6	18.4
40°-50°	882.3	19.4
50°-60°	774.4	17.0
60°-70°	527.4	11.6
70°-80°	232.6	5.1
80°-90°	41.9	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°	1254.3	27.6
0°-40°	2093.8	46.0
0°-60°	3750.6	82.4
0°-90°	4552.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4552.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1552	1550	1548	1550	148
15°	1525	1526	1526	1526	1529	431
25°	1459	1463	1466	1465	1464	673
35°	1338	1344	1349	1342	1337	836
45°	1150	1157	1154	1135	1126	886
55°	889	885	875	852	843	792
65°	555	541	534	523	513	547
75°	214	215	216	212	208	234
85°	30	31	31	31	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1554.2	1553.3	1552.4	1551.1	1552.4
5°	1552.0	1551.6	1550.3	1548.5	1550.3
7.5°	1548.5	1548.5	1547.2	1545.9	1546.8
10°	1542.0	1543.3	1542.0	1540.7	1542.5
12.5°	1533.4	1535.5	1535.1	1535.1	1536.4
15°	1524.7	1526.4	1526.0	1526.0	1529.0
17.5°	1512.6	1514.7	1515.2	1516.0	1517.8
20°	1497.4	1500.4	1502.2	1501.7	1503.0
22.5°	1479.6	1483.1	1484.4	1485.3	1484.4
25°	1459.2	1463.2	1465.8	1464.9	1463.6
27.5°	1434.5	1438.9	1442.3	1440.2	1437.6
30°	1406.8	1410.7	1415.9	1412.0	1409.4
32.5°	1372.6	1379.9	1384.7	1379.9	1376.0
35°	1338.3	1344.4	1348.7	1342.2	1337.0
37.5°	1296.7	1304.1	1308.0	1298.9	1293.3
40°	1253.0	1260.3	1262.5	1250.8	1243.4
42.5°	1203.1	1211.3	1212.2	1195.7	1187.5
45°	1149.8	1157.2	1154.1	1135.1	1126.4
47.5°	1092.2	1097.4	1090.9	1071.4	1061.8
50°	1028.9	1031.9	1024.1	1001.1	992.0
52.5°	962.1	961.7	951.7	928.8	918.8
55°	888.9	885.4	874.6	851.6	843.4
57.5°	813.9	803.1	791.4	771.9	761.0
60°	727.7	719.4	709.0	689.5	681.3
62.5°	646.2	631.5	622.8	605.5	598.1
65°	554.7	541.3	534.4	522.7	512.7
67.5°	462.9	452.5	447.7	439.5	430.4
70°	370.1	367.1	364.5	356.7	351.1
72.5°	288.2	287.3	286.9	282.6	276.9
75°	214.1	215.4	216.3	212.4	207.6
77.5°	152.6	154.7	154.3	152.1	150.8
80°	99.7	101.4	102.7	100.5	100.5
82.5°	60.2	62.0	61.5	62.4	60.7
85°	29.9	31.2	31.2	30.8	30.3
87.5°	10.8	11.3	10.8	11.3	10.8
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)