

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: P506639

Luminaire Tested: **24PD-40-PW1-L840**

Issue Date: 3/26/2021



**Test Information**

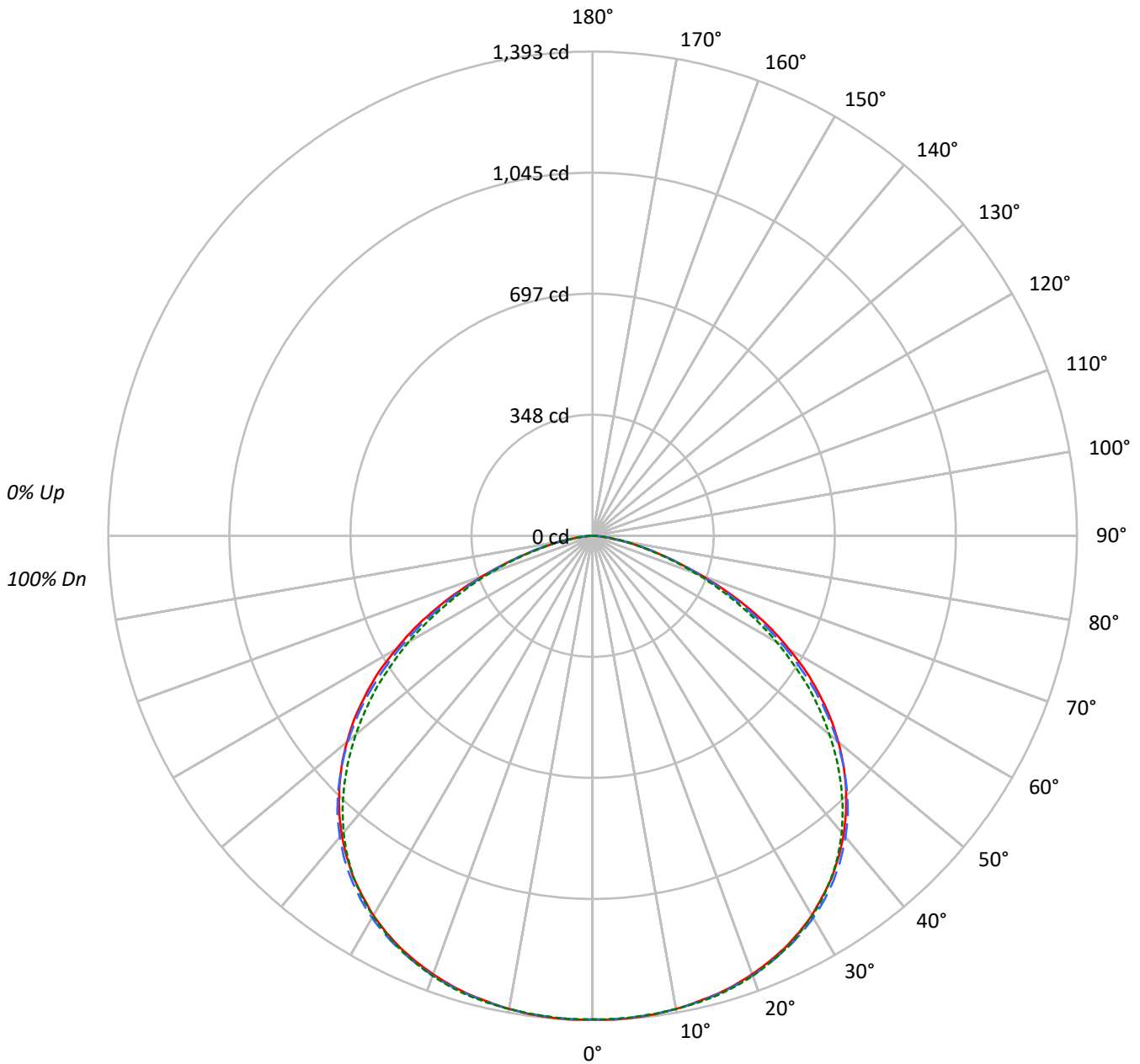
Test Method: LM-79-08  
Report Number: P506639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-40-PW1-L840  
Description: 4000 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: 4081.2 lumens  
Efficiency: N/A  
Efficacy: 138.8 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): 29.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				
RC	80				70				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°	1873	1873	1873
5°	1879	1877	1877
10°	1889	1889	1889
15°	1904	1906	1909
20°	1922	1928	1929
25°	1942	1951	1948
30°	1959	1972	1963
35°	1971	1986	1969
40°	1973	1988	1958
45°	1961	1969	1921
50°	1931	1922	1861
55°	1869	1839	1774
60°	1755	1710	1644
65°	1583	1525	1463
70°	1305	1286	1238
75°	998	1008	967
80°	693	714	698
85°	414	432	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	3.2
10°-20°	386.9	9.5
20°-30°	605.1	14.8
30°-40°	752.7	18.4
40°-50°	791.0	19.4
50°-60°	694.3	17.0
60°-70°	472.8	11.6
70°-80°	208.6	5.1
80°-90°	37.6	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°	1124.4	27.6
0°-40°	1877.1	46.0
0°-60°	3362.3	82.4
0°-90°	4081.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1391	1391	1390	1388	1390	133
15°	1367	1368	1368	1368	1371	386
25°	1308	1312	1314	1313	1312	603
35°	1200	1205	1209	1203	1199	750
45°	1031	1037	1035	1018	1010	794
55°	797	794	784	764	756	710
65°	497	485	479	469	460	490
75°	192	193	194	190	186	210
85°	27	28	28	28	27	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1391.7	1391.7	1391.7	1391.7	1391.7
2.5°	1393.3	1392.5	1391.7	1390.5	1391.7
5°	1391.3	1390.9	1389.8	1388.2	1389.8
7.5°	1388.2	1388.2	1387.0	1385.9	1386.7
10°	1382.4	1383.5	1382.4	1381.2	1382.8
12.5°	1374.6	1376.6	1376.2	1376.2	1377.3
15°	1366.8	1368.4	1368.0	1368.0	1370.7
17.5°	1356.0	1357.9	1358.3	1359.1	1360.6
20°	1342.4	1345.1	1346.6	1346.2	1347.4
22.5°	1326.4	1329.5	1330.7	1331.5	1330.7
25°	1308.2	1311.7	1314.0	1313.2	1312.1
27.5°	1286.0	1289.9	1293.0	1291.1	1288.7
30°	1261.2	1264.7	1269.3	1265.8	1263.5
32.5°	1230.5	1237.1	1241.3	1237.1	1233.6
35°	1199.8	1205.2	1209.1	1203.3	1198.6
37.5°	1162.5	1169.1	1172.6	1164.4	1159.4
40°	1123.2	1129.8	1131.8	1121.3	1114.7
42.5°	1078.6	1085.9	1086.7	1071.9	1064.6
45°	1030.8	1037.4	1034.6	1017.6	1009.8
47.5°	979.1	983.8	977.9	960.4	951.9
50°	922.4	925.1	918.1	897.5	889.3
52.5°	862.5	862.1	853.2	832.6	823.7
55°	796.9	793.8	784.0	763.5	756.1
57.5°	729.7	719.9	709.5	692.0	682.3
60°	652.3	645.0	635.6	618.1	610.8
62.5°	579.3	566.1	558.3	542.8	536.2
65°	497.3	485.3	479.1	468.6	459.6
67.5°	414.9	405.6	401.3	394.0	385.8
70°	331.8	329.1	326.8	319.8	314.7
72.5°	258.4	257.6	257.2	253.3	248.3
75°	191.9	193.1	193.9	190.4	186.1
77.5°	136.8	138.7	138.3	136.4	135.2
80°	89.4	90.9	92.1	90.1	90.1
82.5°	54.0	55.6	55.2	55.9	54.4
85°	26.8	28.0	28.0	27.6	27.2
87.5°	9.7	10.1	9.7	10.1	9.7
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)