

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: P506630

Luminaire Tested: **24PD-40-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

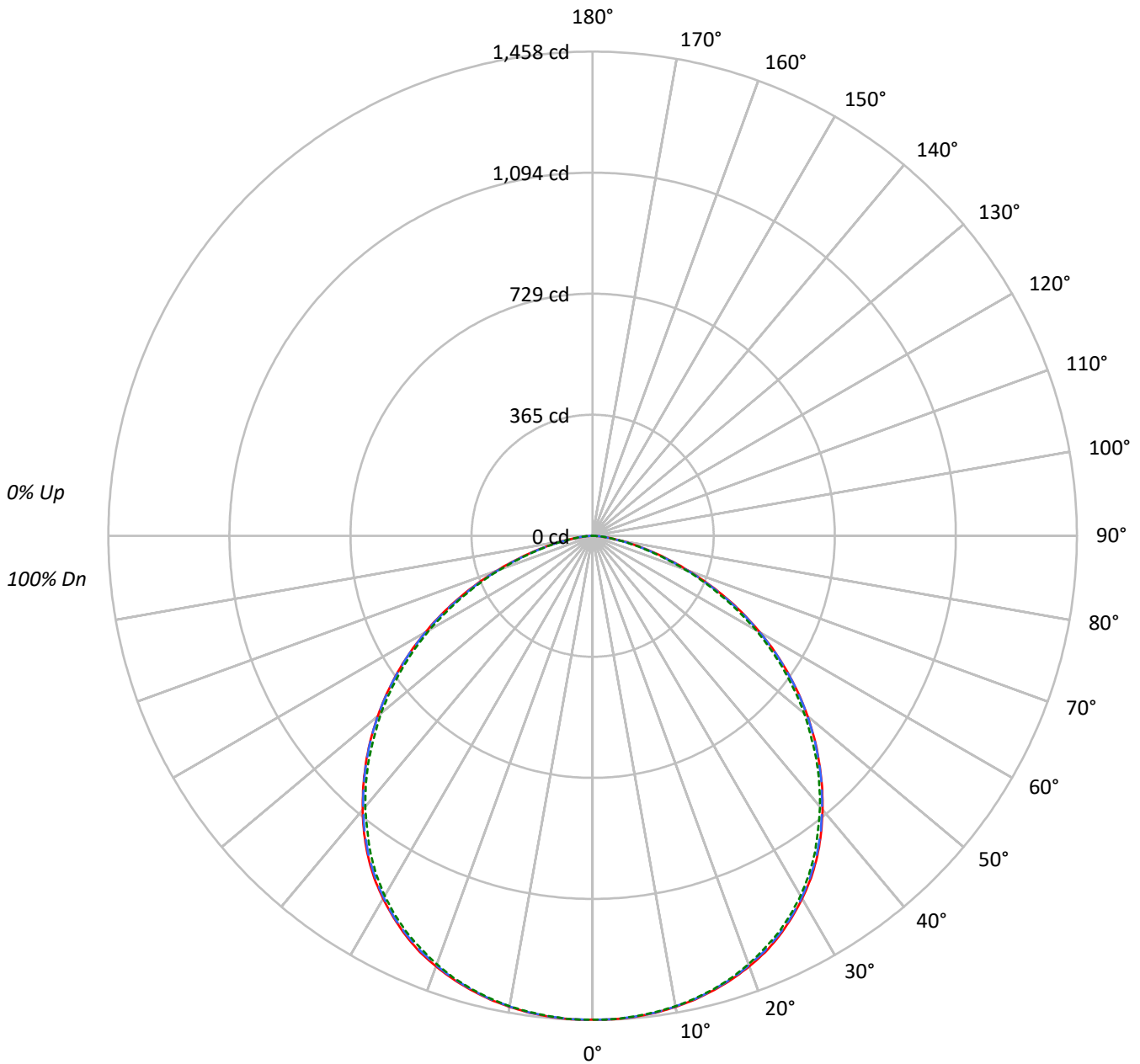
Test Method: LM-79-08  
Report Number: P506630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-40-PR1-L840  
Description: 4000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3923.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
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	110	105	101	98	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	78	84	79	76	81	77	74	72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1961	1961	1961
5°	1964	1963	1962
10°	1968	1966	1966
15°	1972	1969	1967
20°	1976	1971	1965
25°	1974	1968	1960
30°	1961	1955	1945
35°	1937	1930	1915
40°	1892	1887	1871
45°	1836	1833	1812
50°	1768	1767	1740
55°	1681	1677	1646
60°	1567	1560	1525
65°	1411	1395	1362
70°	1205	1187	1158
75°	953	931	910
80°	676	659	638
85°	406	395	383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	3.5
10°-20°	399.3	10.2
20°-30°	610.4	15.6
30°-40°	733.1	18.7
40°-50°	740.8	18.9
50°-60°	636.5	16.2
60°-70°	434.2	11.1
70°-80°	195.2	5.0
80°-90°	35.1	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°	1148.0	29.3
0°-40°	1881.1	48.0
0°-60°	3258.4	83.1
0°-90°	3923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1454	1454	1453	1453	1453	138
15°	1416	1415	1414	1413	1412	400
25°	1330	1329	1326	1321	1320	612
35°	1179	1179	1175	1168	1166	736
45°	965	968	963	957	952	744
55°	716	719	715	709	702	639
65°	443	446	438	435	428	439
75°	183	185	179	178	175	199
85°	26	27	26	26	25	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1457.2	1457.2	1457.2	1457.2	1457.2
2.5°	1457.6	1457.2	1456.8	1456.0	1457.2
5°	1454.2	1453.8	1453.4	1452.7	1452.7
7.5°	1448.9	1448.1	1448.1	1447.0	1446.6
10°	1440.6	1440.2	1439.1	1439.1	1438.7
12.5°	1430.1	1429.3	1428.2	1427.8	1427.1
15°	1415.8	1415.4	1413.9	1412.8	1412.4
17.5°	1399.6	1398.5	1397.3	1394.7	1394.7
20°	1380.0	1379.3	1376.6	1374.0	1372.5
22.5°	1357.4	1355.9	1352.9	1350.3	1347.3
25°	1329.6	1329.2	1325.8	1321.3	1320.2
27.5°	1297.2	1298.0	1294.6	1290.1	1287.8
30°	1261.9	1263.4	1258.5	1252.8	1251.7
32.5°	1223.1	1223.5	1219.3	1213.3	1211.1
35°	1179.1	1179.1	1175.3	1168.2	1165.9
37.5°	1130.1	1129.8	1127.5	1119.2	1115.1
40°	1077.1	1079.0	1074.4	1066.9	1065.0
42.5°	1022.1	1024.4	1020.3	1013.9	1009.7
45°	964.9	967.6	963.4	956.6	952.5
47.5°	905.8	907.7	904.7	896.1	890.4
50°	844.5	848.3	844.1	835.1	831.3
52.5°	781.3	785.4	780.5	773.7	766.6
55°	716.5	719.2	715.0	708.6	701.5
57.5°	649.9	655.2	648.4	640.9	634.9
60°	582.2	586.7	579.9	573.2	566.8
62.5°	513.3	516.3	508.8	504.7	497.1
65°	443.3	445.6	438.1	435.0	427.9
67.5°	374.1	376.0	368.8	364.7	360.5
70°	306.3	307.8	301.8	298.1	294.3
72.5°	242.4	242.7	237.1	236.0	231.4
75°	183.3	184.8	179.1	178.0	175.0
77.5°	131.7	132.1	128.3	127.6	124.9
80°	87.3	87.7	85.1	84.7	82.4
82.5°	52.7	53.1	50.8	50.8	49.3
85°	26.3	26.7	25.6	25.6	24.8
87.5°	9.0	9.4	9.0	9.0	8.7
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)