

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: P506693

Luminaire Tested: **24PD-50-PW1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506693
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-50-PW1-L840
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

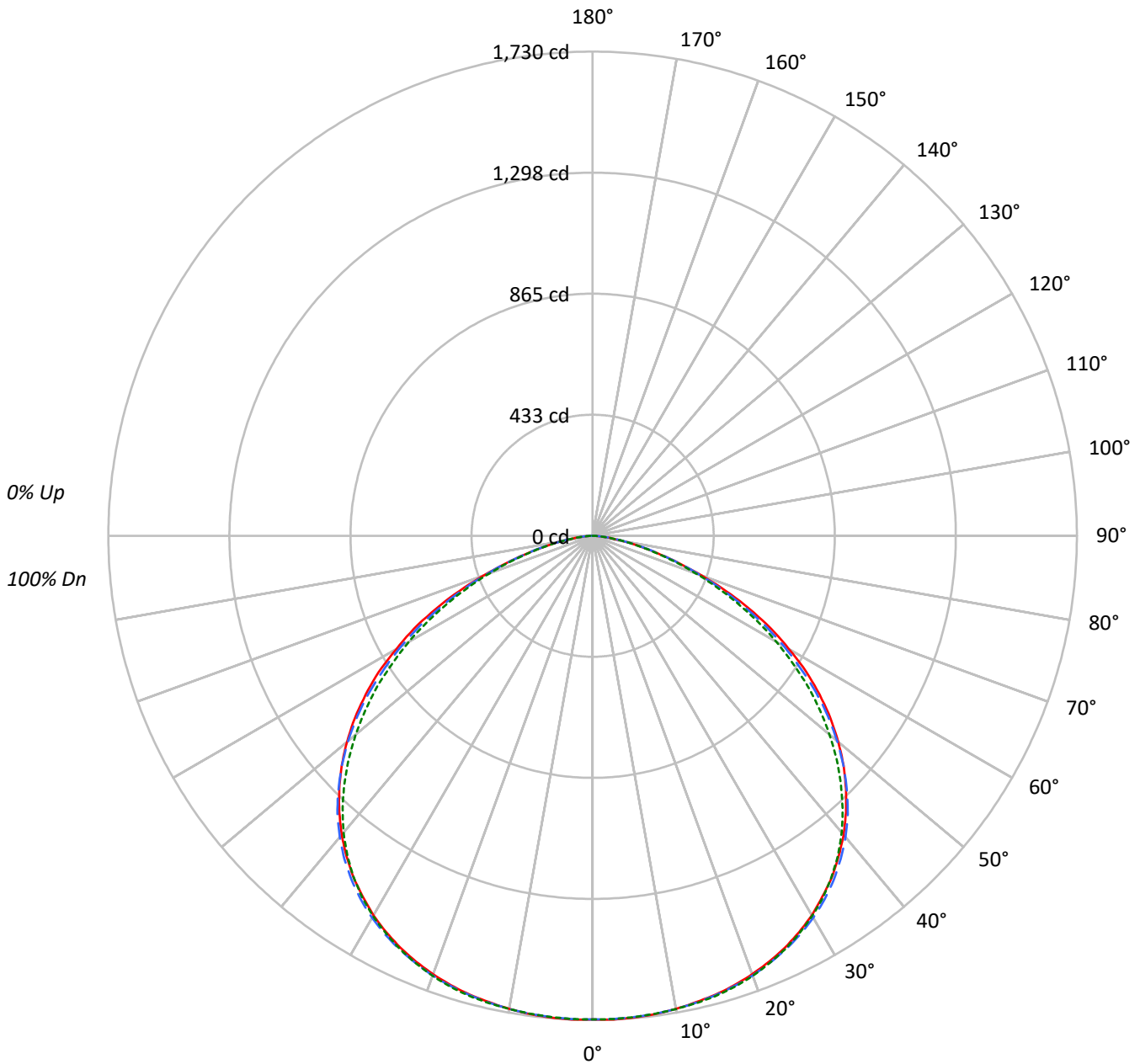
Lumens per Lamp: N/A
Luminaire Lumens: 5068.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.1
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°	2325	2325	2325
5°	2334	2331	2331
10°	2345	2345	2346
15°	2364	2366	2371
20°	2387	2394	2396
25°	2412	2422	2419
30°	2433	2449	2438
35°	2447	2466	2445
40°	2450	2469	2431
45°	2436	2445	2386
50°	2398	2386	2312
55°	2321	2284	2202
60°	2180	2124	2041
65°	1966	1894	1817
70°	1621	1596	1537
75°	1239	1252	1201
80°	860	886	867
85°	514	536	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	3.2
10°-20°	480.5	9.5
20°-30°	751.4	14.8
30°-40°	934.6	18.4
40°-50°	982.2	19.4
50°-60°	862.2	17.0
60°-70°	587.1	11.6
70°-80°	259.0	5.1
80°-90°	46.6	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°	1396.3	27.6
0°-40°	2331.0	46.0
0°-60°	4175.3	82.4
0°-90°	5068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1728	1727	1726	1724	1726	165
15°	1697	1699	1699	1699	1702	480
25°	1624	1629	1632	1631	1629	749
35°	1490	1497	1502	1494	1488	931
45°	1280	1288	1285	1264	1254	986
55°	990	986	974	948	939	882
65°	618	603	595	582	571	609
75°	238	240	241	236	231	261
85°	33	35	35	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1730.2	1729.2	1728.2	1726.8	1728.2
5°	1727.8	1727.3	1725.8	1723.9	1725.8
7.5°	1723.9	1723.9	1722.4	1721.0	1722.0
10°	1716.7	1718.1	1716.7	1715.2	1717.1
12.5°	1707.0	1709.4	1708.9	1708.9	1710.4
15°	1697.4	1699.3	1698.8	1698.8	1702.2
17.5°	1683.8	1686.3	1686.7	1687.7	1689.6
20°	1667.0	1670.3	1672.3	1671.8	1673.2
22.5°	1647.2	1651.0	1652.5	1653.5	1652.5
25°	1624.5	1628.8	1631.7	1630.8	1629.3
27.5°	1597.0	1601.8	1605.7	1603.3	1600.4
30°	1566.1	1570.5	1576.3	1571.9	1569.0
32.5°	1528.0	1536.2	1541.5	1536.2	1531.9
35°	1489.9	1496.6	1501.5	1494.2	1488.4
37.5°	1443.6	1451.8	1456.1	1446.0	1439.7
40°	1394.8	1403.0	1405.5	1392.4	1384.2
42.5°	1339.4	1348.5	1349.5	1331.2	1322.0
45°	1280.0	1288.2	1284.8	1263.6	1254.0
47.5°	1215.8	1221.6	1214.4	1192.7	1182.1
50°	1145.4	1148.8	1140.1	1114.5	1104.4
52.5°	1071.1	1070.6	1059.5	1033.9	1022.9
55°	989.6	985.7	973.6	948.1	938.9
57.5°	906.1	894.0	881.0	859.3	847.2
60°	810.1	800.9	789.3	767.6	758.5
62.5°	719.4	703.0	693.3	674.0	665.8
65°	617.6	602.6	594.9	581.9	570.8
67.5°	515.3	503.7	498.4	489.2	479.1
70°	412.0	408.7	405.8	397.1	390.8
72.5°	320.8	319.9	319.4	314.6	308.3
75°	238.3	239.8	240.8	236.4	231.1
77.5°	169.8	172.2	171.8	169.3	167.9
80°	111.0	112.9	114.3	111.9	111.9
82.5°	67.1	69.0	68.5	69.5	67.5
85°	33.3	34.7	34.7	34.3	33.8
87.5°	12.1	12.5	12.1	12.5	12.1
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)