

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: P506684

Luminaire Tested: **24PD-50-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506684
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-50-PR1-L840
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

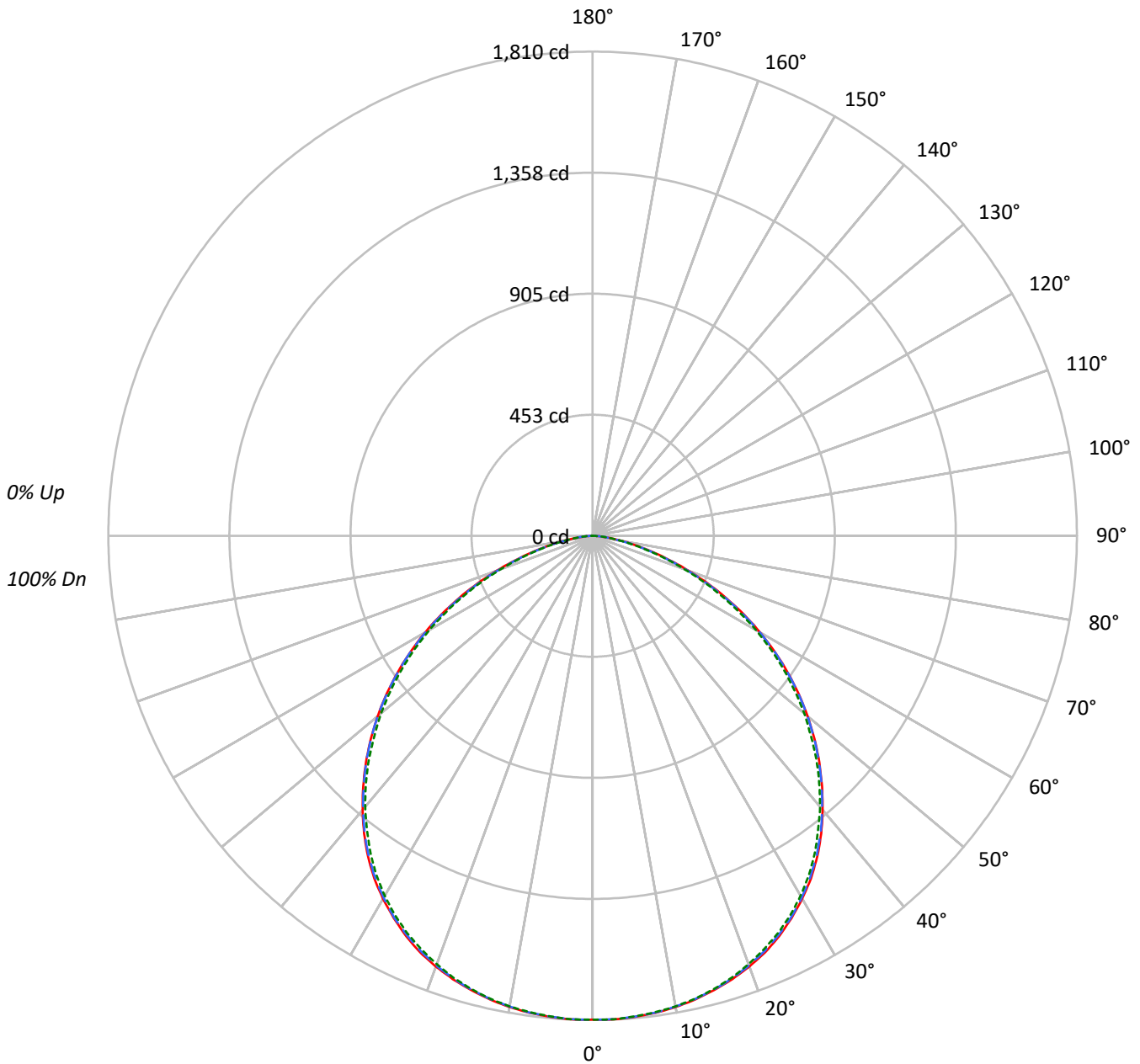
Lumens per Lamp: N/A
Luminaire Lumens: 4871.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2434	2434	2434
5°	2439	2437	2436
10°	2444	2441	2441
15°	2449	2445	2443
20°	2453	2447	2440
25°	2451	2444	2434
30°	2434	2428	2415
35°	2405	2397	2378
40°	2349	2343	2323
45°	2280	2276	2250
50°	2195	2194	2161
55°	2087	2083	2043
60°	1945	1938	1894
65°	1753	1732	1691
70°	1496	1474	1437
75°	1183	1156	1130
80°	840	818	793
85°	505	491	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.5
10°-20°	495.8	10.2
20°-30°	758.0	15.6
30°-40°	910.2	18.7
40°-50°	919.8	18.9
50°-60°	790.4	16.2
60°-70°	539.1	11.1
70°-80°	242.4	5.0
80°-90°	43.6	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°	1425.5	29.3
0°-40°	2335.7	48.0
0°-60°	4045.9	83.1
0°-90°	4871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1806	1805	1805	1804	1804	172
15°	1758	1757	1756	1754	1754	497
25°	1651	1650	1646	1641	1639	760
35°	1464	1464	1459	1450	1448	914
45°	1198	1201	1196	1188	1183	923
55°	890	893	888	880	871	794
65°	550	553	544	540	531	545
75°	228	229	222	221	217	247
85°	33	33	32	32	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1809.8	1809.3	1808.8	1807.9	1809.3
5°	1805.6	1805.1	1804.6	1803.7	1803.7
7.5°	1799.0	1798.1	1798.1	1796.7	1796.2
10°	1788.7	1788.3	1786.9	1786.9	1786.4
12.5°	1775.7	1774.7	1773.3	1772.9	1771.9
15°	1757.9	1757.4	1755.6	1754.2	1753.7
17.5°	1737.8	1736.4	1735.0	1731.7	1731.7
20°	1713.5	1712.6	1709.3	1706.0	1704.2
22.5°	1685.5	1683.6	1679.9	1676.6	1672.9
25°	1650.9	1650.4	1646.2	1640.6	1639.2
27.5°	1610.7	1611.6	1607.4	1601.8	1599.0
30°	1566.8	1568.7	1562.6	1555.6	1554.2
32.5°	1518.7	1519.1	1514.0	1506.5	1503.7
35°	1464.0	1464.0	1459.3	1450.4	1447.6
37.5°	1403.2	1402.8	1400.0	1389.7	1384.6
40°	1337.4	1339.7	1334.1	1324.7	1322.4
42.5°	1269.1	1271.9	1266.8	1258.9	1253.7
45°	1198.1	1201.4	1196.2	1187.8	1182.7
47.5°	1124.7	1127.1	1123.3	1112.6	1105.6
50°	1048.6	1053.2	1048.1	1036.9	1032.2
52.5°	970.1	975.2	969.1	960.7	951.8
55°	889.7	893.0	887.8	879.9	871.0
57.5°	807.0	813.5	805.1	795.8	788.3
60°	722.9	728.5	720.1	711.7	703.7
62.5°	637.4	641.1	631.8	626.6	617.3
65°	550.5	553.3	543.9	540.2	531.3
67.5°	464.5	466.8	457.9	452.8	447.7
70°	380.4	382.2	374.8	370.1	365.4
72.5°	300.9	301.4	294.4	293.0	287.4
75°	227.6	229.4	222.4	221.0	217.3
77.5°	163.5	164.0	159.3	158.4	155.1
80°	108.4	108.9	105.6	105.1	102.3
82.5°	65.4	65.9	63.1	63.1	61.2
85°	32.7	33.2	31.8	31.8	30.8
87.5°	11.2	11.7	11.2	11.2	10.7
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)