

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: P506631

Luminaire Tested: **24PD-40-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506631
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-L850
Description: 4000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

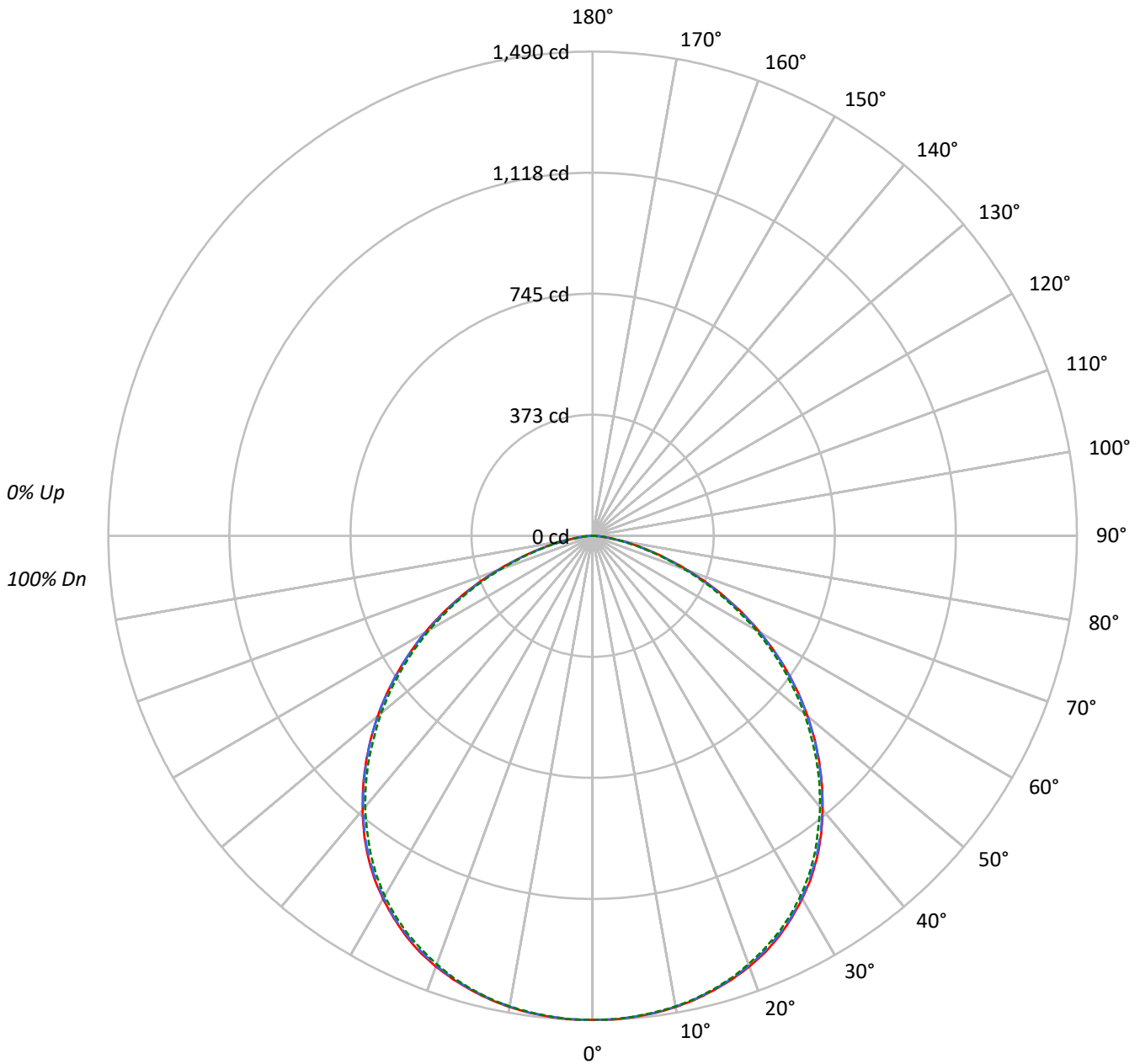
Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (A_{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°	2004	2004	2004
5°	2008	2006	2006
10°	2012	2010	2009
15°	2016	2013	2011
20°	2020	2015	2009
25°	2018	2012	2003
30°	2004	1999	1988
35°	1980	1973	1957
40°	1934	1929	1912
45°	1877	1874	1853
50°	1807	1806	1779
55°	1718	1715	1682
60°	1601	1595	1559
65°	1443	1426	1393
70°	1232	1214	1183
75°	974	952	930
80°	691	673	652
85°	415	404	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.5
10°-20°	408.2	10.2
20°-30°	624.0	15.6
30°-40°	749.3	18.7
40°-50°	757.2	18.9
50°-60°	650.6	16.2
60°-70°	443.9	11.1
70°-80°	199.5	5.0
80°-90°	35.9	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°	1173.5	29.3
0°-40°	1922.8	48.0
0°-60°	3330.7	83.1
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1486	1486	1486	1485	1485	141
15°	1447	1447	1445	1444	1444	409
25°	1359	1359	1355	1351	1350	626
35°	1205	1205	1201	1194	1192	752
45°	986	989	985	978	974	760
55°	732	735	731	724	717	654
65°	453	456	448	445	437	448
75°	187	189	183	182	179	203
85°	27	27	26	26	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1489.9	1489.5	1489.1	1488.3	1489.5
5°	1486.4	1486.0	1485.6	1484.9	1484.9
7.5°	1481.0	1480.3	1480.3	1479.1	1478.7
10°	1472.6	1472.2	1471.0	1471.0	1470.6
12.5°	1461.8	1461.0	1459.9	1459.5	1458.7
15°	1447.2	1446.8	1445.3	1444.1	1443.7
17.5°	1430.6	1429.5	1428.3	1425.6	1425.6
20°	1410.6	1409.9	1407.2	1404.5	1402.9
22.5°	1387.6	1386.0	1382.9	1380.2	1377.2
25°	1359.1	1358.7	1355.2	1350.6	1349.5
27.5°	1326.0	1326.8	1323.3	1318.7	1316.4
30°	1289.8	1291.4	1286.4	1280.6	1279.5
32.5°	1250.2	1250.6	1246.4	1240.2	1237.9
35°	1205.2	1205.2	1201.4	1194.1	1191.7
37.5°	1155.2	1154.8	1152.5	1144.0	1139.8
40°	1101.0	1102.9	1098.3	1090.6	1088.7
42.5°	1044.8	1047.1	1042.9	1036.3	1032.1
45°	986.3	989.0	984.8	977.9	973.6
47.5°	925.9	927.9	924.8	915.9	910.2
50°	863.2	867.1	862.8	853.6	849.8
52.5°	798.6	802.8	797.8	790.9	783.6
55°	732.4	735.1	730.9	724.4	717.0
57.5°	664.3	669.7	662.8	655.1	649.0
60°	595.1	599.7	592.8	585.9	579.3
62.5°	524.7	527.8	520.1	515.9	508.2
65°	453.2	455.5	447.8	444.7	437.4
67.5°	382.4	384.3	377.0	372.8	368.5
70°	313.1	314.7	308.5	304.7	300.8
72.5°	247.7	248.1	242.4	241.2	236.6
75°	187.3	188.9	183.1	182.0	178.9
77.5°	134.6	135.0	131.2	130.4	127.7
80°	89.2	89.6	86.9	86.6	84.2
82.5°	53.9	54.2	51.9	51.9	50.4
85°	26.9	27.3	26.2	26.2	25.4
87.5°	9.2	9.6	9.2	9.2	8.8
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)