

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: P505938

Luminaire Tested: **14PD-40-PW1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PW1-L850
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

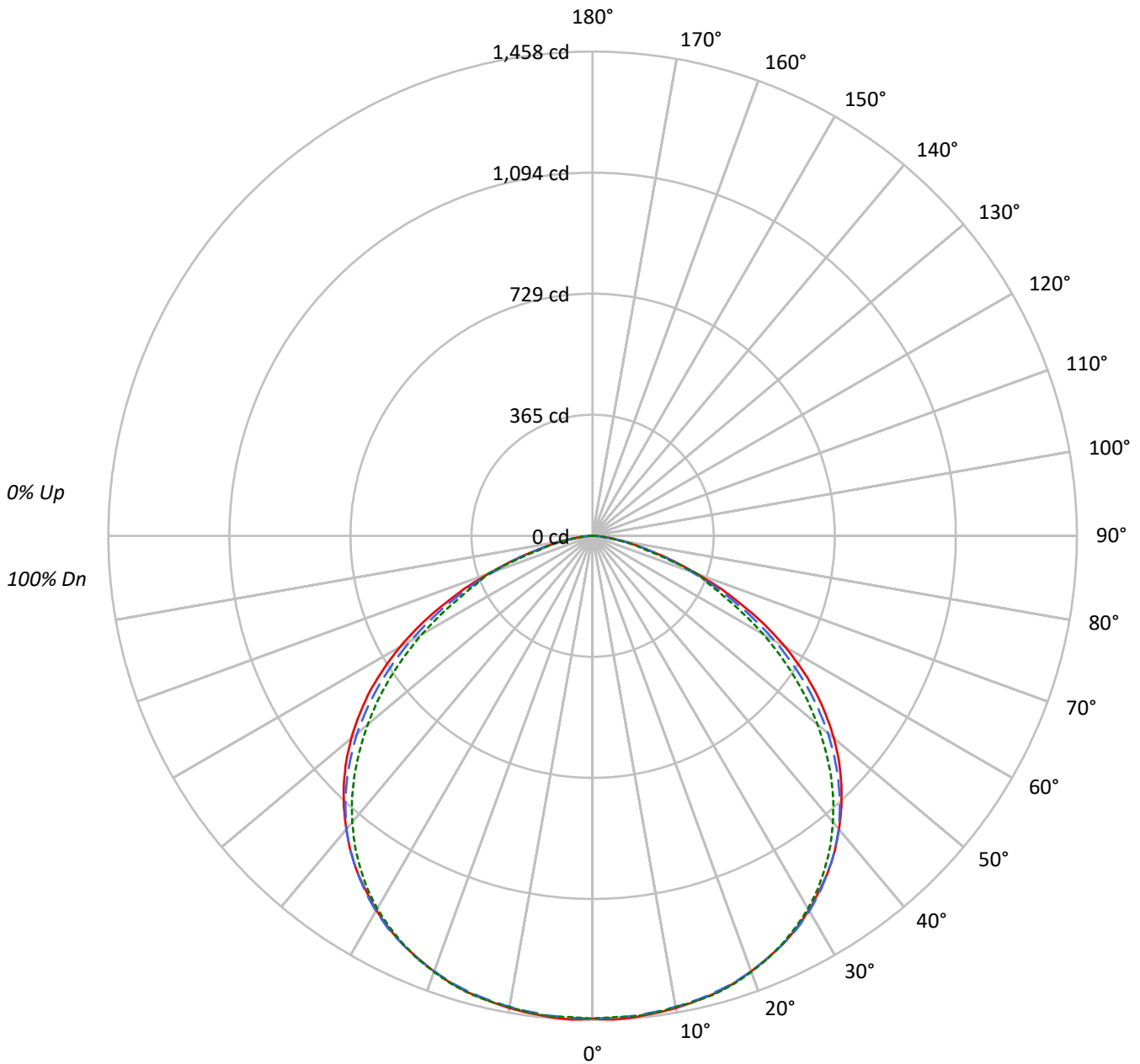
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4139.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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				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			100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72			72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61			61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39			39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3911	3911	3911
5°	3931	3920	3924
10°	3947	3936	3938
15°	3974	3965	3978
20°	3998	3995	4002
25°	4028	4028	4021
30°	4047	4054	4029
35°	4059	4059	4008
40°	4052	4050	3954
45°	4031	3984	3855
50°	3970	3873	3698
55°	3847	3685	3485
60°	3604	3405	3193
65°	3191	3008	2809
70°	2605	2489	2625
75°	1965	1931	1734
80°	1413	1325	1325
85°	889	837	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.3
10°-20°	402.3	9.7
20°-30°	624.6	15.1
30°-40°	769.3	18.6
40°-50°	800.9	19.3
50°-60°	696.5	16.8
60°-70°	467.9	11.3
70°-80°	202.5	4.9
80°-90°	37.2	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°	1165.1	28.1
0°-40°	1934.4	46.7
0°-60°	3431.8	82.9
0°-90°	4139.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4139.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1455	1446	1451	1454	1453	139
15°	1426	1416	1423	1428	1428	403
25°	1356	1350	1356	1356	1354	625
35°	1236	1232	1236	1225	1220	772
45°	1059	1056	1047	1023	1013	816
55°	820	805	786	754	743	729
65°	501	492	472	450	441	496
75°	189	191	186	190	167	208
85°	29	30	27	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.5	1453.5	1453.5	1453.5	1453.5
2.5°	1458.4	1449.4	1452.7	1457.6	1451.0
5°	1455.1	1446.1	1451.0	1454.3	1452.7
7.5°	1450.2	1443.6	1446.1	1449.4	1448.6
10°	1444.4	1437.9	1440.3	1443.6	1441.2
12.5°	1435.4	1428.0	1432.9	1436.2	1435.4
15°	1426.4	1416.5	1423.1	1428.0	1428.0
17.5°	1413.2	1405.0	1411.6	1415.7	1414.9
20°	1396.0	1390.2	1395.1	1398.4	1397.6
22.5°	1376.2	1372.1	1377.9	1377.9	1377.9
25°	1356.5	1350.0	1356.5	1356.5	1354.1
27.5°	1331.1	1325.3	1333.5	1331.1	1326.9
30°	1302.3	1299.0	1304.8	1300.7	1296.5
32.5°	1268.6	1267.0	1272.7	1264.5	1261.2
35°	1235.7	1232.5	1235.7	1225.1	1220.1
37.5°	1197.1	1193.8	1197.1	1183.2	1175.8
40°	1153.6	1151.1	1152.8	1134.7	1125.6
42.5°	1108.4	1105.9	1101.8	1079.6	1072.2
45°	1059.1	1055.8	1046.8	1022.9	1013.1
47.5°	1006.5	1000.8	987.6	962.1	949.0
50°	948.2	940.0	925.2	897.2	883.3
52.5°	884.9	875.0	856.1	828.2	815.1
55°	820.0	805.2	785.5	754.3	742.8
57.5°	746.0	730.4	709.9	681.1	668.0
60°	669.6	654.0	632.7	606.4	593.2
62.5°	588.3	574.3	553.0	528.3	516.8
65°	501.2	492.2	472.4	450.3	441.2
67.5°	419.0	410.0	393.6	374.7	378.0
70°	331.1	330.3	316.3	303.2	333.6
72.5°	258.0	256.4	249.0	242.4	240.7
75°	189.0	190.6	185.7	189.8	166.8
77.5°	133.1	134.7	133.9	122.4	128.2
80°	91.2	91.2	85.5	81.3	85.5
82.5°	55.0	65.7	59.2	48.5	46.8
85°	28.8	29.6	27.1	23.8	23.8
87.5°	10.7	12.3	10.7	9.9	9.0
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)