

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: P505925

Luminaire Tested: **14PD-40-PL1-L950**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PL1-L950
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

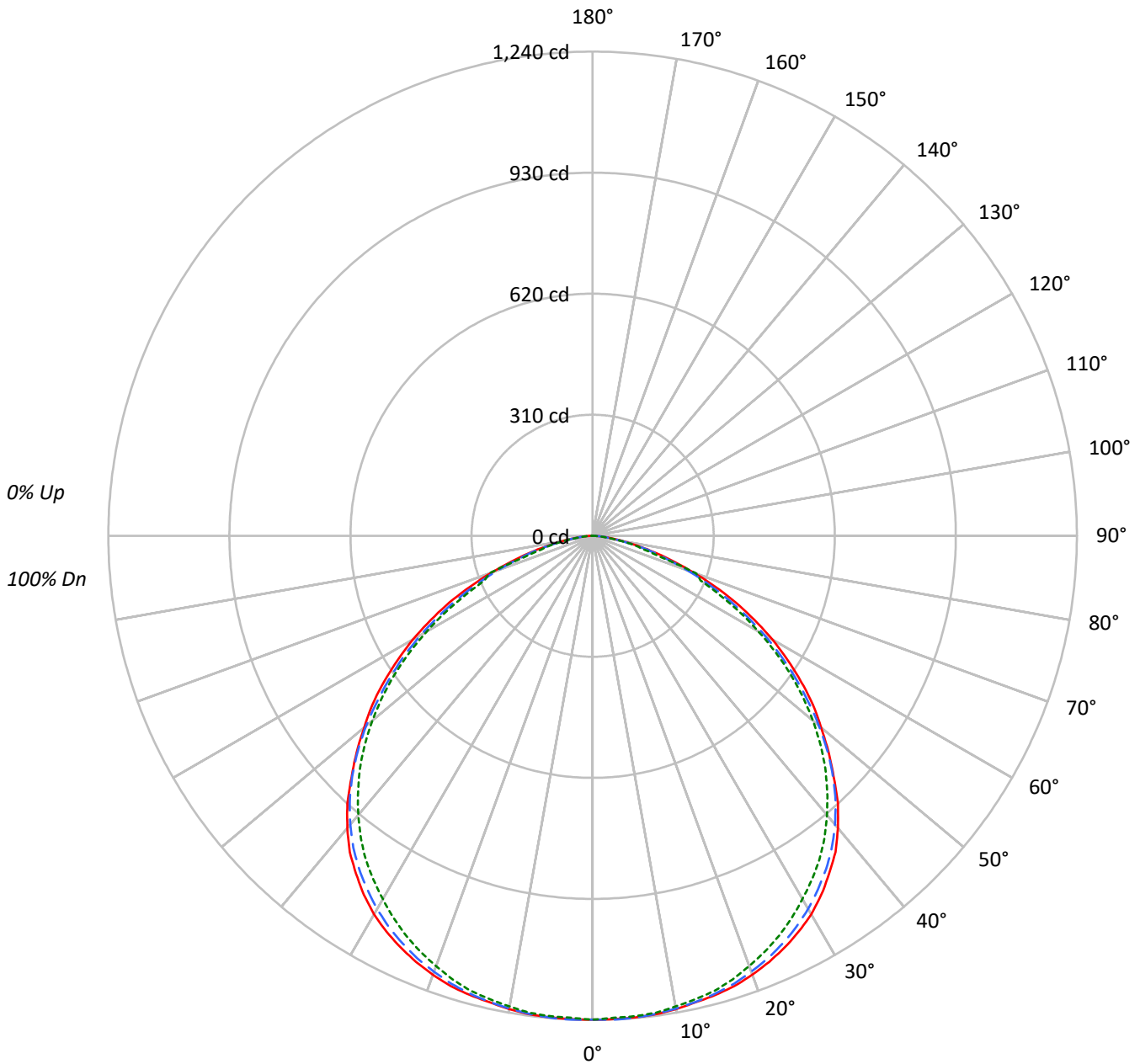
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.8 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
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

TEST NUMBER: P505925
CATALOG NUMBER: 14PD-40-PL1-L950

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	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3334	3334	3334
5°	3345	3347	3336
10°	3363	3360	3345
15°	3391	3382	3361
20°	3426	3402	3357
25°	3455	3420	3356
30°	3478	3429	3338
35°	3469	3424	3326
40°	3432	3392	3280
45°	3322	3312	3206
50°	3196	3167	3082
55°	3058	2969	2902
60°	2856	2728	2637
65°	2574	2413	2283
70°	2152	2018	2216
75°	1698	1634	1415
80°	1223	1086	1106
85°	778	651	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.4
10°-20°	342.4	9.9
20°-30°	529.5	15.4
30°-40°	648.0	18.8
40°-50°	664.3	19.3
50°-60°	565.8	16.4
60°-70°	378.1	11.0
70°-80°	167.6	4.9
80°-90°	30.3	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°	989.7	28.7
0°-40°	1637.7	47.6
0°-60°	2867.8	83.3
0°-90°	3443.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1238	1236	1239	1238	1235	118
15°	1217	1213	1214	1210	1206	344
25°	1164	1160	1152	1137	1130	537
35°	1056	1053	1042	1019	1012	660
45°	873	876	870	850	842	674
55°	652	648	633	620	618	582
65°	404	401	379	362	359	398
75°	163	165	157	158	136	177
85°	25	24	21	20	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.1	1239.1	1239.1	<i>1239.1</i>	1239.1
2.5°	<i>1239.1</i>	<i>1237.0</i>	<i>1240.4</i>	<i>1241.8</i>	<i>1235.7</i>
5°	1238.4	1235.7	1239.1	<i>1238.4</i>	1235.0
7.5°	1236.3	1231.6	1235.0	<i>1233.6</i>	1232.3
10°	1230.9	1226.8	1229.5	<i>1227.5</i>	1224.1
12.5°	1223.4	1220.7	1222.7	<i>1220.7</i>	1215.9
15°	1217.3	1213.2	1213.9	<i>1210.5</i>	1206.4
17.5°	1209.1	1203.0	1203.0	<i>1196.2</i>	1191.4
20°	1196.2	1190.8	1188.0	<i>1178.5</i>	1172.4
22.5°	1181.2	1177.1	1171.7	<i>1159.5</i>	1152.7
25°	1163.5	1159.5	1152.0	<i>1137.0</i>	1130.2
27.5°	1143.1	1137.7	1129.5	<i>1111.8</i>	1103.7
30°	1119.3	1112.5	1103.7	<i>1083.9</i>	1074.4
32.5°	1090.1	1085.3	1073.7	<i>1053.3</i>	1044.5
35°	1056.0	1053.3	1042.4	<i>1019.3</i>	1012.5
37.5°	1021.3	1015.9	1006.4	<i>981.9</i>	975.1
40°	977.1	973.7	965.5	<i>941.7</i>	933.6
42.5°	929.5	927.4	920.6	<i>898.2</i>	889.3
45°	873.0	875.7	870.3	<i>850.5</i>	842.4
47.5°	819.2	817.9	815.8	<i>798.1</i>	791.3
50°	763.4	760.7	756.6	<i>742.4</i>	736.2
52.5°	711.1	705.6	694.7	<i>682.5</i>	678.4
55°	651.9	648.5	632.8	<i>619.9</i>	618.5
57.5°	592.0	589.9	570.9	<i>555.9</i>	555.9
60°	530.7	528.0	506.9	<i>491.3</i>	489.9
62.5°	466.8	464.7	443.0	<i>425.3</i>	426.0
65°	404.2	400.8	379.0	<i>362.0</i>	358.6
67.5°	338.9	337.5	316.4	<i>300.8</i>	299.4
70°	273.5	273.5	256.5	<i>242.9</i>	281.7
72.5°	215.7	213.7	200.0	<i>193.9</i>	185.1
75°	163.3	165.3	157.2	<i>157.9</i>	136.1
77.5°	116.4	113.0	109.5	<i>102.1</i>	108.2
80°	78.9	76.9	70.1	<i>68.0</i>	71.4
82.5°	49.0	49.7	43.5	<i>39.5</i>	38.8
85°	25.2	24.5	21.1	<i>20.4</i>	19.7
87.5°	9.5	10.2	8.8	<i>8.2</i>	7.5
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)