

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: P505948

Luminaire Tested: **14PD-45-PL1-L927**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505948
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-45-PL1-L927
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
2700K LEDS
Light Source: -
Ballast/Driver: -

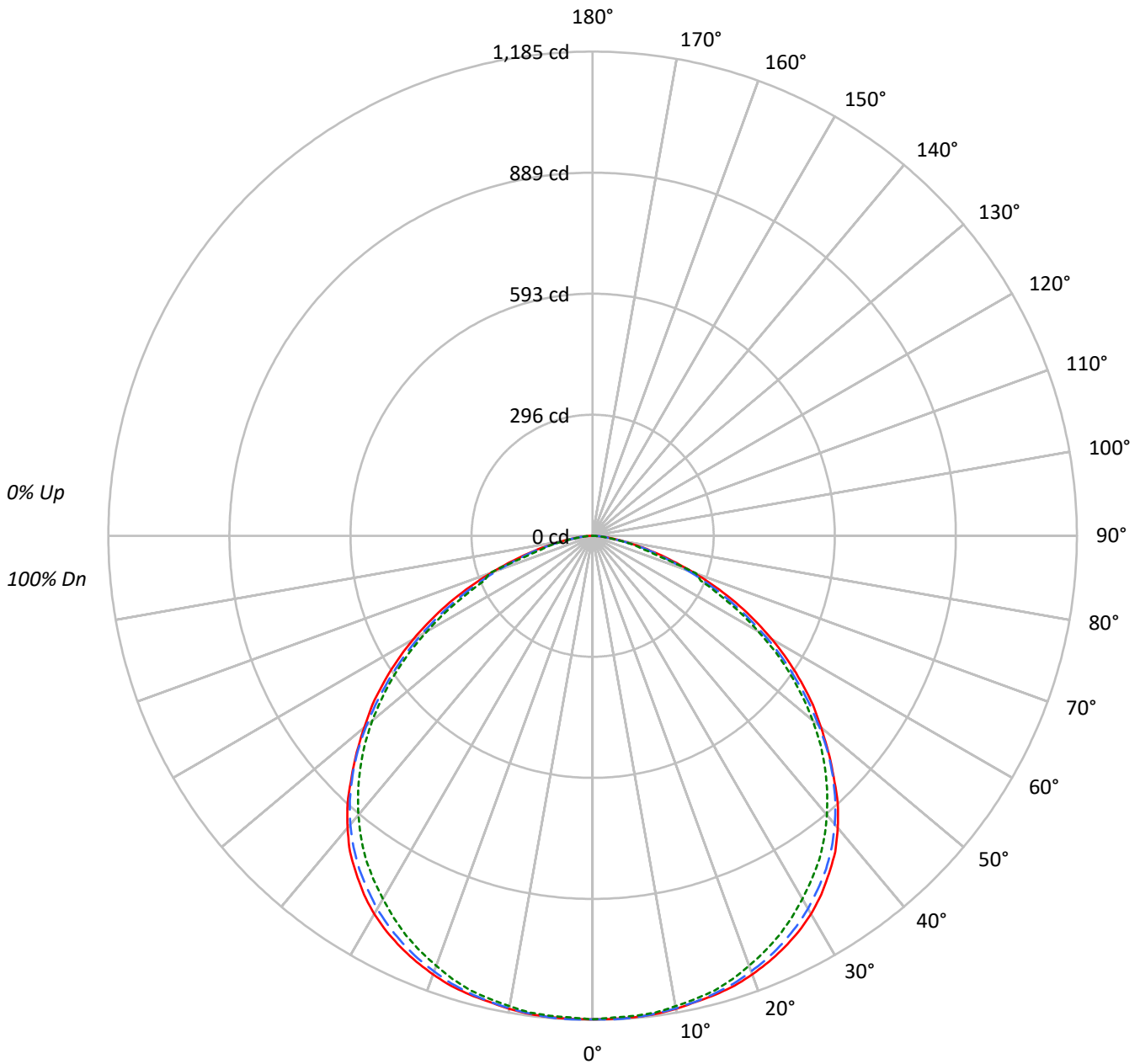
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3289.0 lumens
Efficiency: N/A
Efficacy: 76.7 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): 42.9
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	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°	3185	3185	3185
5°	3195	3197	3186
10°	3212	3209	3195
15°	3239	3230	3210
20°	3271	3249	3206
25°	3300	3267	3205
30°	3322	3275	3188
35°	3313	3271	3177
40°	3278	3239	3132
45°	3173	3163	3062
50°	3052	3025	2943
55°	2921	2836	2771
60°	2728	2605	2518
65°	2458	2305	2181
70°	2055	1928	2116
75°	1622	1561	1352
80°	1168	1037	1057
85°	741	621	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	327.0	9.9
20°-30°	505.7	15.4
30°-40°	618.9	18.8
40°-50°	634.5	19.3
50°-60°	540.4	16.4
60°-70°	361.1	11.0
70°-80°	160.0	4.9
80°-90°	28.9	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°	945.2	28.7
0°-40°	1564.1	47.6
0°-60°	2738.9	83.3
0°-90°	3289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1183	1180	1183	1183	1180	113
15°	1163	1159	1159	1156	1152	329
25°	1111	1107	1100	1086	1079	512
35°	1009	1006	996	974	967	631
45°	834	836	831	812	804	644
55°	623	619	604	592	591	555
65°	386	383	362	346	342	380
75°	156	158	150	151	130	169
85°	24	23	20	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.4	1183.4	1183.4	<i>1183.4</i>	1183.4
2.5°	<i>1183.4</i>	<i>1181.4</i>	<i>1184.7</i>	<i>1186.0</i>	<i>1180.1</i>
5°	1182.7	1180.1	1183.4	<i>1182.7</i>	1179.5
7.5°	1180.8	1176.2	1179.5	<i>1178.2</i>	1176.9
10°	1175.6	1171.7	1174.3	<i>1172.3</i>	1169.1
12.5°	1168.4	1165.8	1167.8	<i>1165.8</i>	1161.3
15°	1162.6	1158.7	1159.3	<i>1156.1</i>	1152.2
17.5°	1154.8	1148.9	1148.9	<i>1142.4</i>	1137.9
20°	1142.4	1137.3	1134.7	<i>1125.6</i>	1119.7
22.5°	1128.2	1124.3	1119.1	<i>1107.4</i>	1100.9
25°	1111.3	1107.4	1100.2	<i>1085.9</i>	1079.4
27.5°	1091.8	1086.6	1078.8	<i>1061.9</i>	1054.1
30°	1069.0	1062.5	1054.1	<i>1035.2</i>	1026.1
32.5°	1041.1	1036.5	1025.5	<i>1006.0</i>	997.5
35°	1008.6	1006.0	995.6	<i>973.5</i>	967.0
37.5°	975.4	970.2	961.1	<i>937.7</i>	931.2
40°	933.2	929.9	922.1	<i>899.4</i>	891.6
42.5°	887.7	885.8	879.3	<i>857.8</i>	849.4
45°	833.8	836.4	831.2	<i>812.3</i>	804.5
47.5°	782.4	781.1	779.2	<i>762.3</i>	755.8
50°	729.1	726.5	722.6	<i>709.0</i>	703.1
52.5°	679.1	673.9	663.5	<i>651.8</i>	647.9
55°	622.6	619.3	604.4	<i>592.0</i>	590.7
57.5°	565.4	563.4	545.2	<i>530.9</i>	530.9
60°	506.9	504.3	484.1	<i>469.2</i>	467.9
62.5°	445.8	443.9	423.1	<i>406.2</i>	406.8
65°	386.0	382.8	362.0	<i>345.7</i>	342.5
67.5°	323.6	322.3	302.2	<i>287.2</i>	285.9
70°	261.2	261.2	245.0	<i>232.0</i>	269.0
72.5°	206.0	204.1	191.1	<i>185.2</i>	176.8
75°	156.0	157.9	150.1	<i>150.8</i>	130.0
77.5°	111.1	107.9	104.6	<i>97.5</i>	103.3
80°	75.4	73.4	66.9	<i>65.0</i>	68.2
82.5°	46.8	47.4	41.6	<i>37.7</i>	37.0
85°	24.0	23.4	20.1	<i>19.5</i>	18.8
87.5°	9.1	9.7	8.4	<i>7.8</i>	7.1
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)