

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: P505966

Luminaire Tested: **14PD-45-PW1-L927**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505966
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-45-PW1-L927
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,
2700K LEDS
Light Source: -
Ballast/Driver: -

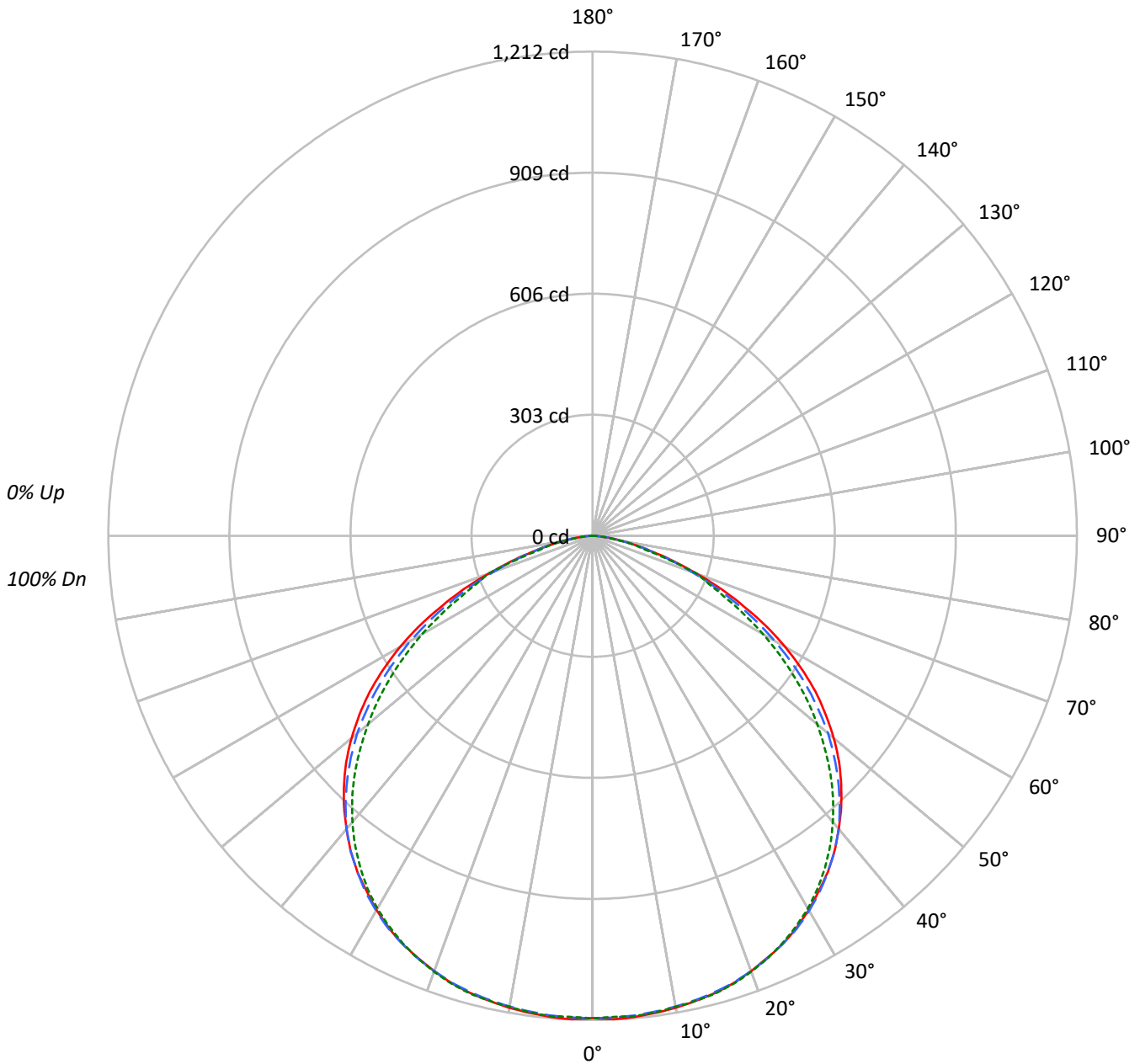
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439.0 lumens
Efficiency: N/A
Efficacy: 80.2 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): 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				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	97	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	77	83	79	76	80	77	74	72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3249	3249	3249
5°	3266	3256	3260
10°	3279	3270	3272
15°	3301	3294	3305
20°	3321	3319	3325
25°	3346	3346	3340
30°	3362	3368	3347
35°	3372	3372	3330
40°	3367	3364	3285
45°	3349	3309	3203
50°	3298	3218	3072
55°	3196	3062	2895
60°	2994	2829	2652
65°	2651	2499	2334
70°	2164	2068	2180
75°	1632	1604	1441
80°	1175	1100	1100
85°	738	695	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.3
10°-20°	334.3	9.7
20°-30°	518.9	15.1
30°-40°	639.1	18.6
40°-50°	665.4	19.3
50°-60°	578.6	16.8
60°-70°	388.7	11.3
70°-80°	168.3	4.9
80°-90°	30.9	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°	968.0	28.1
0°-40°	1607.1	46.7
0°-60°	2851.1	82.9
0°-90°	3439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1209	1201	1206	1208	1207	115
15°	1185	1177	1182	1186	1186	335
25°	1127	1122	1127	1127	1125	519
35°	1027	1024	1027	1018	1014	642
45°	880	877	870	850	842	678
55°	681	669	653	627	617	605
65°	416	409	392	374	367	412
75°	157	158	154	158	139	173
85°	24	25	22	20	20	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.5	1207.5	1207.5	1207.5	1207.5
2.5°	1211.6	1204.1	1206.8	1210.9	1205.5
5°	1208.9	1201.4	1205.5	1208.2	1206.8
7.5°	1204.8	1199.3	1201.4	1204.1	1203.4
10°	1200.0	1194.6	1196.6	1199.3	1197.3
12.5°	1192.5	1186.4	1190.5	1193.2	1192.5
15°	1185.0	1176.8	1182.3	1186.4	1186.4
17.5°	1174.1	1167.3	1172.7	1176.1	1175.4
20°	1159.7	1155.0	1159.1	1161.8	1161.1
22.5°	1143.4	1140.0	1144.7	1144.7	1144.7
25°	1127.0	1121.5	1127.0	1127.0	1124.9
27.5°	1105.8	1101.0	1107.9	1105.8	1102.4
30°	1081.9	1079.2	1084.0	1080.6	1077.2
32.5°	1053.9	1052.6	1057.4	1050.5	1047.8
35°	1026.6	1023.9	1026.6	1017.8	1013.7
37.5°	994.6	991.8	994.6	983.0	976.8
40°	958.4	956.3	957.7	942.7	935.2
42.5°	920.8	918.8	915.4	896.9	890.8
45°	879.9	877.1	869.6	849.8	841.7
47.5°	836.2	831.4	820.5	799.3	788.4
50°	787.7	780.9	768.6	745.4	733.8
52.5°	735.2	727.0	711.3	688.1	677.1
55°	681.2	669.0	652.6	626.6	617.1
57.5°	619.8	606.8	589.8	565.9	555.0
60°	556.3	543.4	525.6	503.8	492.8
62.5°	488.7	477.1	459.4	438.9	429.4
65°	416.4	408.9	392.5	374.1	366.6
67.5°	348.1	340.6	327.0	311.3	314.0
70°	275.1	274.4	262.8	251.9	277.1
72.5°	214.3	213.0	206.8	201.4	200.0
75°	157.0	158.4	154.3	157.7	138.6
77.5°	110.6	111.9	111.3	101.7	106.5
80°	75.8	75.8	71.0	67.6	71.0
82.5°	45.7	54.6	49.1	40.3	38.9
85°	23.9	24.6	22.5	19.8	19.8
87.5°	8.9	10.2	8.9	8.2	7.5
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)