

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: P506855

Luminaire Tested: **24PD-80-PW1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-80-PW1-L840
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

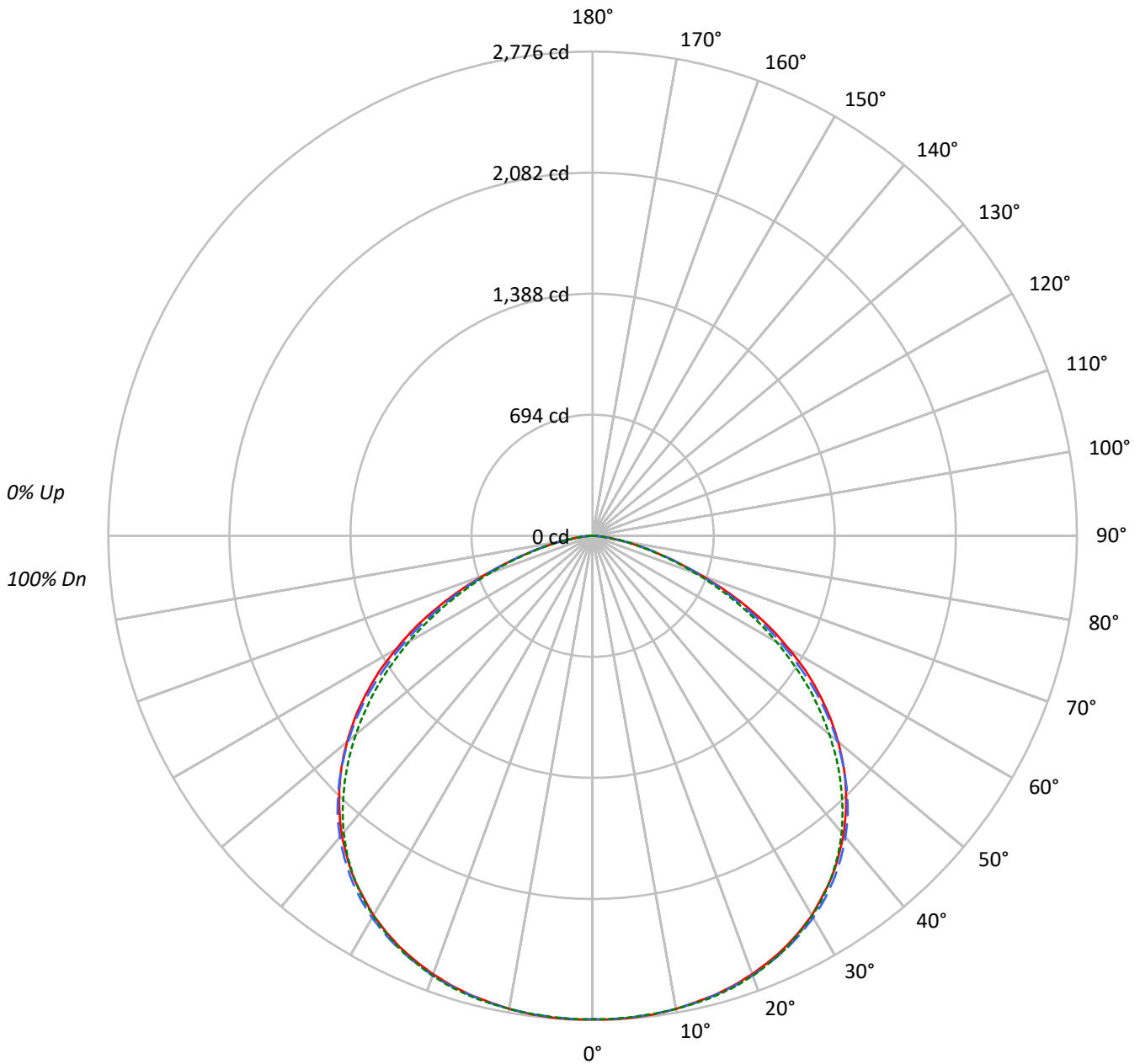
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8130.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3730	3730	3730
5°	3744	3739	3739
10°	3763	3763	3763
15°	3793	3796	3804
20°	3829	3841	3843
25°	3869	3886	3880
30°	3903	3929	3911
35°	3926	3956	3922
40°	3930	3960	3900
45°	3907	3922	3828
50°	3846	3828	3709
55°	3724	3664	3533
60°	3497	3408	3274
65°	3154	3038	2915
70°	2600	2561	2466
75°	1988	2008	1927
80°	1379	1421	1392
85°	824	860	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.2
10°-20°	770.8	9.5
20°-30°	1205.4	14.8
30°-40°	1499.4	18.4
40°-50°	1575.7	19.4
50°-60°	1383.1	17.0
60°-70°	941.8	11.6
70°-80°	415.5	5.1
80°-90°	74.8	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°	2240.0	27.6
0°-40°	3739.3	46.0
0°-60°	6698.1	82.4
0°-90°	8130.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8130.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2772	2771	2769	2766	2769	264
15°	2723	2726	2725	2725	2731	770
25°	2606	2613	2618	2616	2614	1202
35°	2390	2401	2409	2397	2388	1494
45°	2053	2067	2061	2027	2012	1581
55°	1588	1581	1562	1521	1506	1415
65°	991	967	954	933	916	977
75°	382	385	386	379	371	418
85°	53	56	56	55	54	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2772.4	2772.4	2772.4	2772.4	2772.4
2.5°	2775.5	2774.0	2772.4	2770.1	2772.4
5°	2771.7	2770.9	2768.6	2765.5	2768.6
7.5°	2765.5	2765.5	2763.2	2760.8	2762.4
10°	2753.9	2756.2	2753.9	2751.5	2754.6
12.5°	2738.4	2742.3	2741.5	2741.5	2743.8
15°	2722.9	2726.0	2725.2	2725.2	2730.6
17.5°	2701.2	2705.1	2705.9	2707.4	2710.5
20°	2674.1	2679.6	2682.7	2681.9	2684.2
22.5°	2642.4	2648.6	2650.9	2652.5	2650.9
25°	2606.0	2613.0	2617.6	2616.1	2613.8
27.5°	2561.9	2569.7	2575.8	2572.0	2567.3
30°	2512.4	2519.3	2528.6	2521.7	2517.0
32.5°	2451.2	2464.4	2472.9	2464.4	2457.4
35°	2390.1	2400.9	2408.7	2397.1	2387.8
37.5°	2315.8	2328.9	2335.9	2319.7	2309.6
40°	2237.6	2250.8	2254.6	2233.7	2220.6
42.5°	2148.6	2163.3	2164.9	2135.4	2120.7
45°	2053.4	2066.6	2061.1	2027.1	2011.6
47.5°	1950.5	1959.7	1948.1	1913.3	1896.3
50°	1837.5	1842.9	1828.9	1787.9	1771.7
52.5°	1718.3	1717.5	1699.7	1658.7	1640.9
55°	1587.5	1581.3	1561.9	1520.9	1506.2
57.5°	1453.6	1434.2	1413.3	1378.5	1359.1
60°	1299.5	1284.8	1266.3	1231.4	1216.7
62.5°	1154.0	1127.7	1112.2	1081.3	1068.1
65°	990.7	966.7	954.3	933.4	915.6
67.5°	826.6	808.0	799.5	784.8	768.6
70°	661.0	655.6	650.9	637.0	626.9
72.5°	514.7	513.2	512.4	504.6	494.6
75°	382.4	384.7	386.2	379.3	370.7
77.5°	272.4	276.3	275.5	271.7	269.3
80°	178.0	181.1	183.4	179.6	179.6
82.5°	107.6	110.7	109.9	111.5	108.4
85°	53.4	55.7	55.7	55.0	54.2
87.5°	19.3	20.1	19.3	20.1	19.3
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)