

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: P506847

Luminaire Tested: **24PD-80-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-80-PR1-L850
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

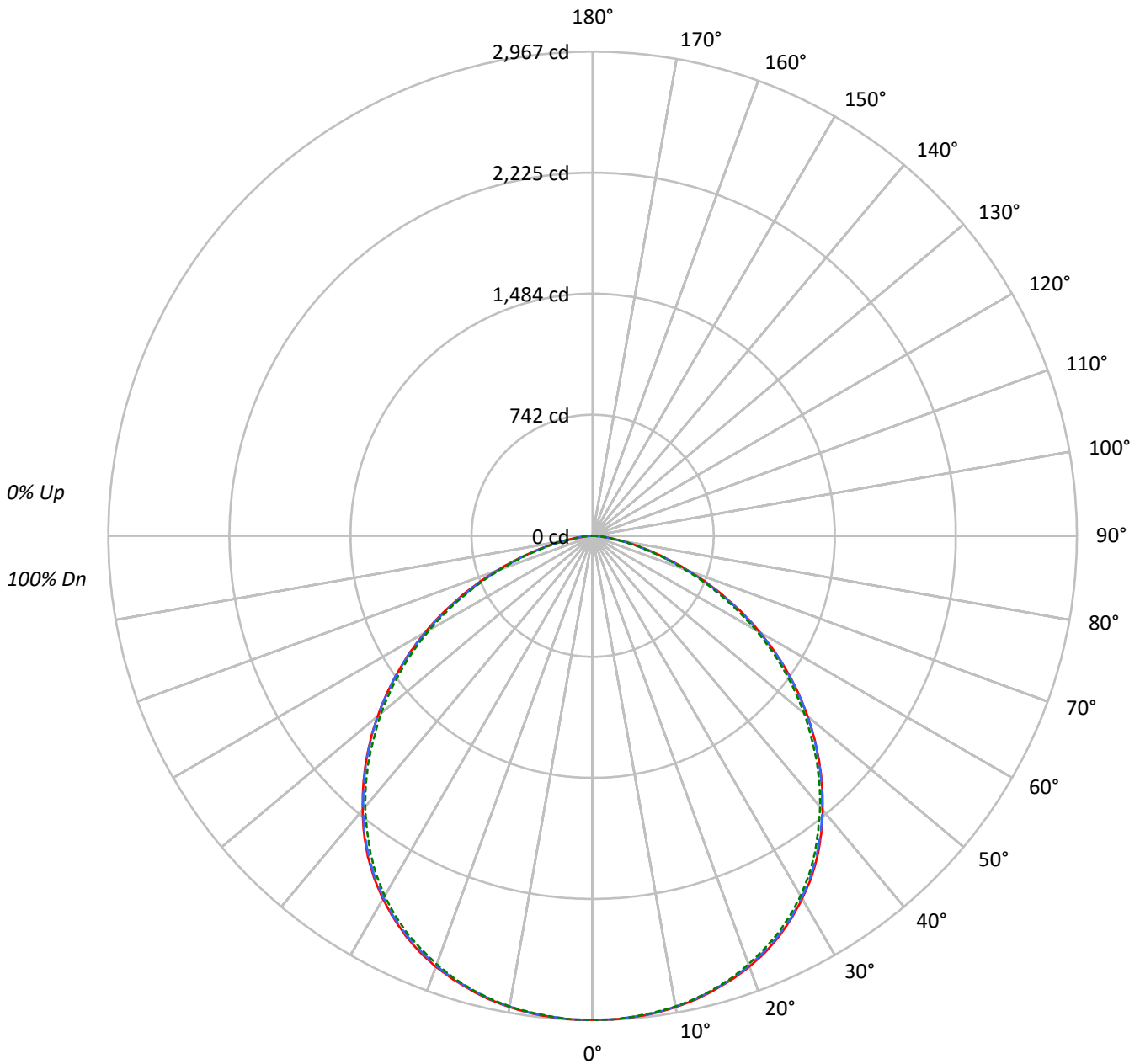
Lumens per Lamp: N/A
Luminaire Lumens: 7986.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61								
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52								
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46								
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40								
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35								
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32								
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28								
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3991	3991	3991
5°	3998	3996	3994
10°	4007	4003	4001
15°	4015	4009	4005
20°	4022	4013	4001
25°	4018	4007	3990
30°	3991	3980	3959
35°	3942	3930	3898
40°	3851	3842	3808
45°	3738	3732	3690
50°	3598	3597	3542
55°	3422	3415	3350
60°	3189	3177	3105
65°	2873	2839	2773
70°	2453	2417	2357
75°	1940	1896	1852
80°	1377	1341	1300
85°	827	804	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	3.5
10°-20°	812.9	10.2
20°-30°	1242.7	15.6
30°-40°	1492.3	18.7
40°-50°	1508.0	18.9
50°-60°	1295.8	16.2
60°-70°	883.9	11.1
70°-80°	397.4	5.0
80°-90°	71.5	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°	2337.1	29.3
0°-40°	3829.4	48.0
0°-60°	6633.2	83.1
0°-90°	7986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2966	2966	2966	2966	2966	
5°	2960	2960	2959	2957	2957	282
15°	2882	2881	2878	2876	2875	814
25°	2707	2706	2699	2690	2688	1246
35°	2400	2400	2392	2378	2373	1499
45°	1964	1970	1961	1947	1939	1514
55°	1459	1464	1456	1443	1428	1302
65°	902	907	892	886	871	893
75°	373	376	365	362	356	404
85°	54	54	52	52	51	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2966.4	2966.4	2966.4	2966.4	2966.4
2.5°	2967.1	2966.4	2965.6	2964.1	2966.4
5°	2960.2	2959.5	2958.7	2957.2	2957.2
7.5°	2949.5	2948.0	2948.0	2945.7	2944.9
10°	2932.7	2931.9	2929.6	2929.6	2928.8
12.5°	2911.2	2909.7	2907.4	2906.6	2905.1
15°	2882.1	2881.3	2878.3	2876.0	2875.2
17.5°	2849.1	2846.8	2844.5	2839.2	2839.2
20°	2809.3	2807.8	2802.4	2797.1	2794.0
22.5°	2763.3	2760.3	2754.1	2748.8	2742.7
25°	2706.6	2705.9	2699.0	2689.8	2687.5
27.5°	2640.8	2642.3	2635.4	2626.2	2621.6
30°	2568.8	2571.8	2561.9	2550.4	2548.1
32.5°	2489.8	2490.6	2482.2	2469.9	2465.3
35°	2400.2	2400.2	2392.5	2378.0	2373.4
37.5°	2300.6	2299.8	2295.3	2278.4	2270.0
40°	2192.6	2196.4	2187.2	2171.9	2168.1
42.5°	2080.7	2085.3	2076.9	2063.9	2055.5
45°	1964.3	1969.7	1961.2	1947.4	1939.0
47.5°	1844.0	1847.8	1841.7	1824.1	1812.6
50°	1719.1	1726.8	1718.4	1700.0	1692.3
52.5°	1590.4	1598.9	1588.9	1575.1	1560.6
55°	1458.7	1464.0	1455.6	1442.6	1428.0
57.5°	1323.1	1333.8	1320.0	1304.7	1292.4
60°	1185.2	1194.4	1180.6	1166.8	1153.8
62.5°	1045.0	1051.1	1035.8	1027.3	1012.0
65°	902.5	907.1	891.7	885.6	871.1
67.5°	761.5	765.3	750.8	742.4	733.9
70°	623.6	626.7	614.4	606.8	599.1
72.5°	493.4	494.1	482.6	480.3	471.2
75°	373.1	376.2	364.7	362.4	356.2
77.5°	268.1	268.9	261.2	259.7	254.3
80°	177.7	178.5	173.1	172.4	167.8
82.5°	107.3	108.0	103.4	103.4	100.4
85°	53.6	54.4	52.1	52.1	50.6
87.5°	18.4	19.2	18.4	18.4	17.6
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)