

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: P506657

Luminaire Tested: **24PD-45-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506657  
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-45-PR1-L840  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

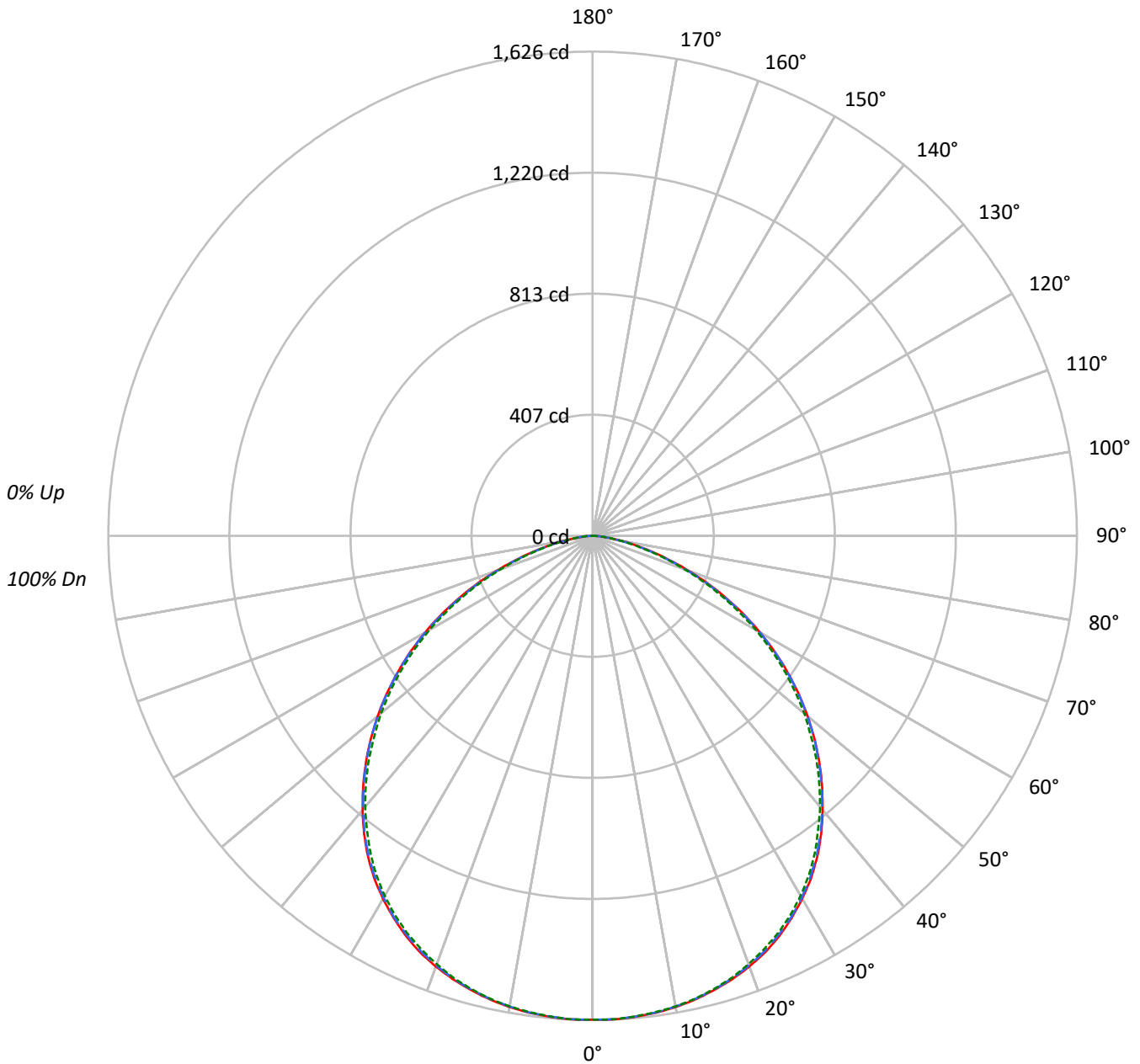
Lumens per Lamp: N/A  
Luminaire Lumens: 4376.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	2187	2187	2187
5°	2191	2190	2189
10°	2196	2193	2193
15°	2200	2197	2195
20°	2204	2199	2192
25°	2202	2196	2186
30°	2187	2181	2169
35°	2160	2153	2136
40°	2110	2105	2087
45°	2048	2045	2022
50°	1972	1971	1941
55°	1875	1871	1836
60°	1748	1741	1701
65°	1574	1556	1520
70°	1344	1325	1292
75°	1063	1039	1015
80°	755	735	712
85°	454	440	428



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.3	3.5
10°-20°	445.4	10.2
20°-30°	680.9	15.6
30°-40°	817.7	18.7
40°-50°	826.4	18.9
50°-60°	710.0	16.2
60°-70°	484.3	11.1
70°-80°	217.8	5.0
80°-90°	39.2	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°	1280.6	29.3
0°-40°	2098.3	48.0
0°-60°	3634.7	83.1
0°-90°	4376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1622	1622	1621	1620	1620	154
15°	1579	1579	1577	1576	1576	446
25°	1483	1483	1479	1474	1473	683
35°	1315	1315	1311	1303	1300	821
45°	1076	1079	1075	1067	1062	830
55°	799	802	798	790	782	713
65°	494	497	489	485	477	489
75°	204	206	200	199	195	222
85°	29	30	28	28	28	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1625.9	1625.4	1625.0	1624.2	1625.4
5°	1622.1	1621.7	1621.2	1620.4	1620.4
7.5°	1616.2	1615.4	1615.4	1614.1	1613.7
10°	1607.0	1606.6	1605.3	1605.3	1604.9
12.5°	1595.2	1594.4	1593.1	1592.7	1591.9
15°	1579.3	1578.8	1577.2	1575.9	1575.5
17.5°	1561.2	1560.0	1558.7	1555.8	1555.8
20°	1539.4	1538.5	1535.6	1532.7	1531.0
22.5°	1514.2	1512.5	1509.2	1506.2	1502.9
25°	1483.1	1482.7	1478.9	1473.9	1472.6
27.5°	1447.0	1447.9	1444.1	1439.1	1436.5
30°	1407.6	1409.2	1403.8	1397.5	1396.2
32.5°	1364.3	1364.8	1360.1	1353.4	1350.9
35°	1315.2	1315.2	1311.0	1303.0	1300.5
37.5°	1260.6	1260.2	1257.7	1248.5	1243.9
40°	1201.5	1203.6	1198.5	1190.1	1188.0
42.5°	1140.2	1142.7	1138.1	1130.9	1126.3
45°	1076.4	1079.3	1074.7	1067.1	1062.5
47.5°	1010.4	1012.5	1009.2	999.5	993.2
50°	942.0	946.2	941.6	931.5	927.3
52.5°	871.5	876.1	870.7	863.1	855.1
55°	799.3	802.2	797.6	790.5	782.5
57.5°	725.0	730.9	723.3	714.9	708.2
60°	649.4	654.5	646.9	639.3	632.2
62.5°	572.6	576.0	567.6	562.9	554.5
65°	494.5	497.0	488.6	485.3	477.3
67.5°	417.3	419.4	411.4	406.8	402.2
70°	341.7	343.4	336.7	332.5	328.3
72.5°	270.3	270.8	264.5	263.2	258.2
75°	204.4	206.1	199.8	198.6	195.2
77.5°	146.9	147.3	143.1	142.3	139.4
80°	97.4	97.8	94.9	94.5	91.9
82.5°	58.8	59.2	56.7	56.7	55.0
85°	29.4	29.8	28.5	28.5	27.7
87.5°	10.1	10.5	10.1	10.1	9.7
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)