

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: P506656

Luminaire Tested: **24PD-45-PR1-L835**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506656  
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-L835  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3500K LEDS  
Light Source: -  
Ballast/Driver: -

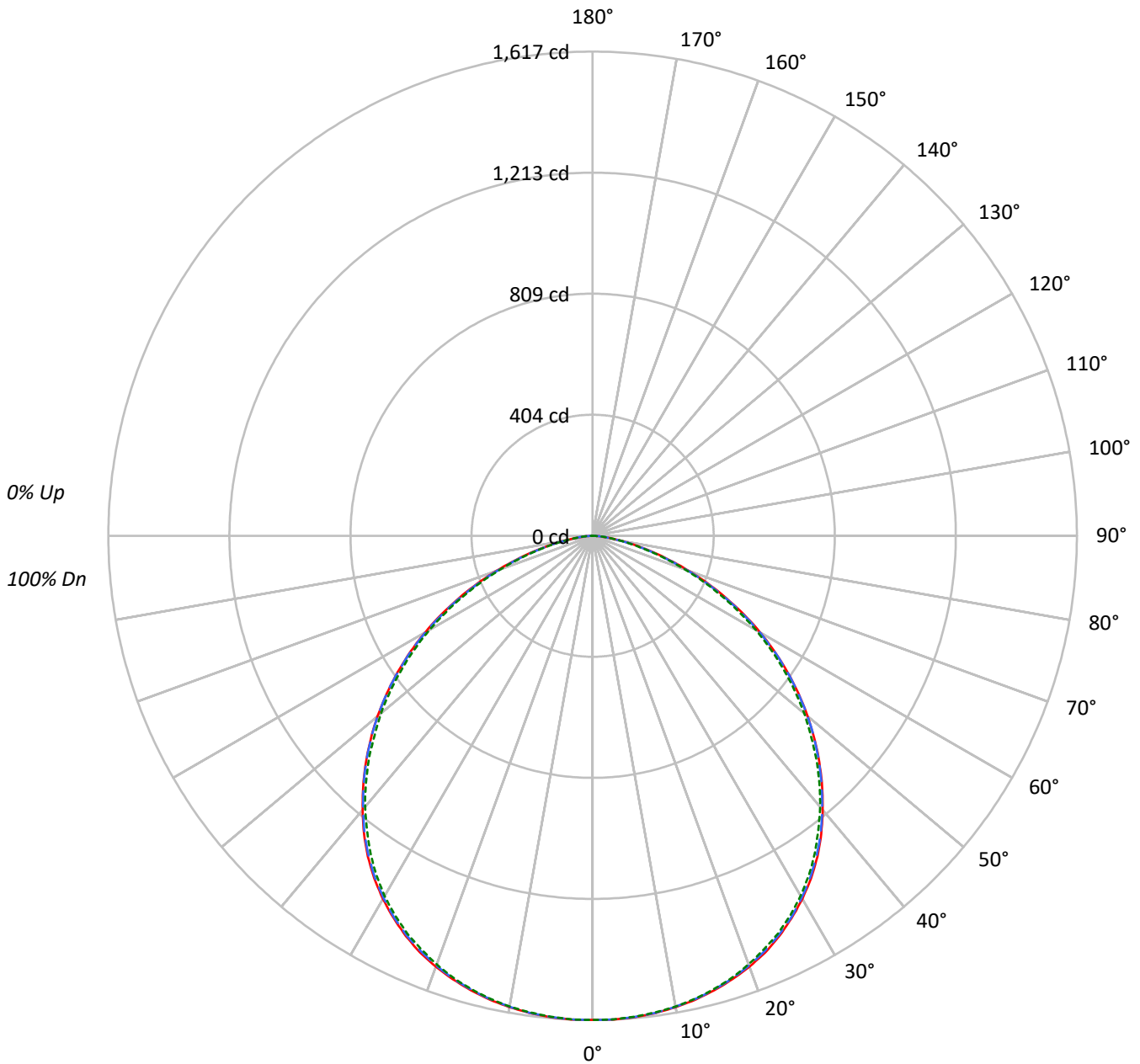
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4353.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 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°	2176	2176	2176
5°	2179	2178	2177
10°	2184	2182	2181
15°	2188	2185	2183
20°	2193	2187	2181
25°	2190	2184	2175
30°	2175	2169	2158
35°	2149	2142	2125
40°	2099	2094	2076
45°	2037	2034	2011
50°	1962	1961	1931
55°	1865	1861	1826
60°	1738	1732	1692
65°	1566	1548	1512
70°	1337	1317	1285
75°	1057	1033	1010
80°	751	731	709
85°	451	438	426



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	3.5
10°-20°	443.1	10.2
20°-30°	677.4	15.6
30°-40°	813.4	18.7
40°-50°	822.0	18.9
50°-60°	706.3	16.2
60°-70°	481.8	11.1
70°-80°	216.6	5.0
80°-90°	39.0	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°	1273.9	29.3
0°-40°	2087.3	48.0
0°-60°	3615.6	83.1
0°-90°	4353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1614	1613	1613	1612	1612	154
15°	1571	1570	1569	1568	1567	444
25°	1475	1475	1471	1466	1465	679
35°	1308	1308	1304	1296	1294	817
45°	1071	1074	1069	1062	1057	825
55°	795	798	793	786	778	710
65°	492	494	486	483	475	487
75°	203	205	199	198	194	220
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°	1616.9	1616.9	1616.9	1616.9	1616.9
2.5°	1617.3	1616.9	1616.5	1615.6	1616.9
5°	1613.6	1613.1	1612.7	1611.9	1611.9
7.5°	1607.7	1606.9	1606.9	1605.6	1605.2
10°	1598.5	1598.1	1596.9	1596.9	1596.4
12.5°	1586.8	1586.0	1584.7	1584.3	1583.5
15°	1571.0	1570.5	1568.9	1567.6	1567.2
17.5°	1553.0	1551.8	1550.5	1547.6	1547.6
20°	1531.3	1530.5	1527.5	1524.6	1522.9
22.5°	1506.2	1504.6	1501.2	1498.3	1495.0
25°	1475.3	1474.9	1471.2	1466.2	1464.9
27.5°	1439.4	1440.3	1436.5	1431.5	1429.0
30°	1400.2	1401.8	1396.4	1390.1	1388.9
32.5°	1357.2	1357.6	1353.0	1346.3	1343.8
35°	1308.3	1308.3	1304.1	1296.2	1293.7
37.5°	1254.0	1253.6	1251.1	1241.9	1237.3
40°	1195.1	1197.2	1192.2	1183.9	1181.8
42.5°	1134.2	1136.7	1132.1	1125.0	1120.4
45°	1070.7	1073.6	1069.0	1061.5	1056.9
47.5°	1005.1	1007.2	1003.9	994.3	988.0
50°	937.1	941.2	936.6	926.6	922.5
52.5°	866.9	871.5	866.1	858.6	850.6
55°	795.1	798.0	793.4	786.3	778.4
57.5°	721.2	727.0	719.5	711.2	704.5
60°	646.0	651.0	643.5	636.0	628.9
62.5°	569.6	572.9	564.6	560.0	551.6
65°	491.9	494.4	486.1	482.7	474.8
67.5°	415.1	417.2	409.2	404.6	400.0
70°	339.9	341.6	334.9	330.7	326.6
72.5°	268.9	269.3	263.1	261.8	256.8
75°	203.4	205.0	198.8	197.5	194.2
77.5°	146.2	146.6	142.4	141.6	138.6
80°	96.9	97.3	94.4	94.0	91.5
82.5°	58.5	58.9	56.4	56.4	54.7
85°	29.2	29.6	28.4	28.4	27.6
87.5°	10.0	10.4	10.0	10.0	9.6
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)