

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: P506655

Luminaire Tested: **24PD-45-PR1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506655
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-L830
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

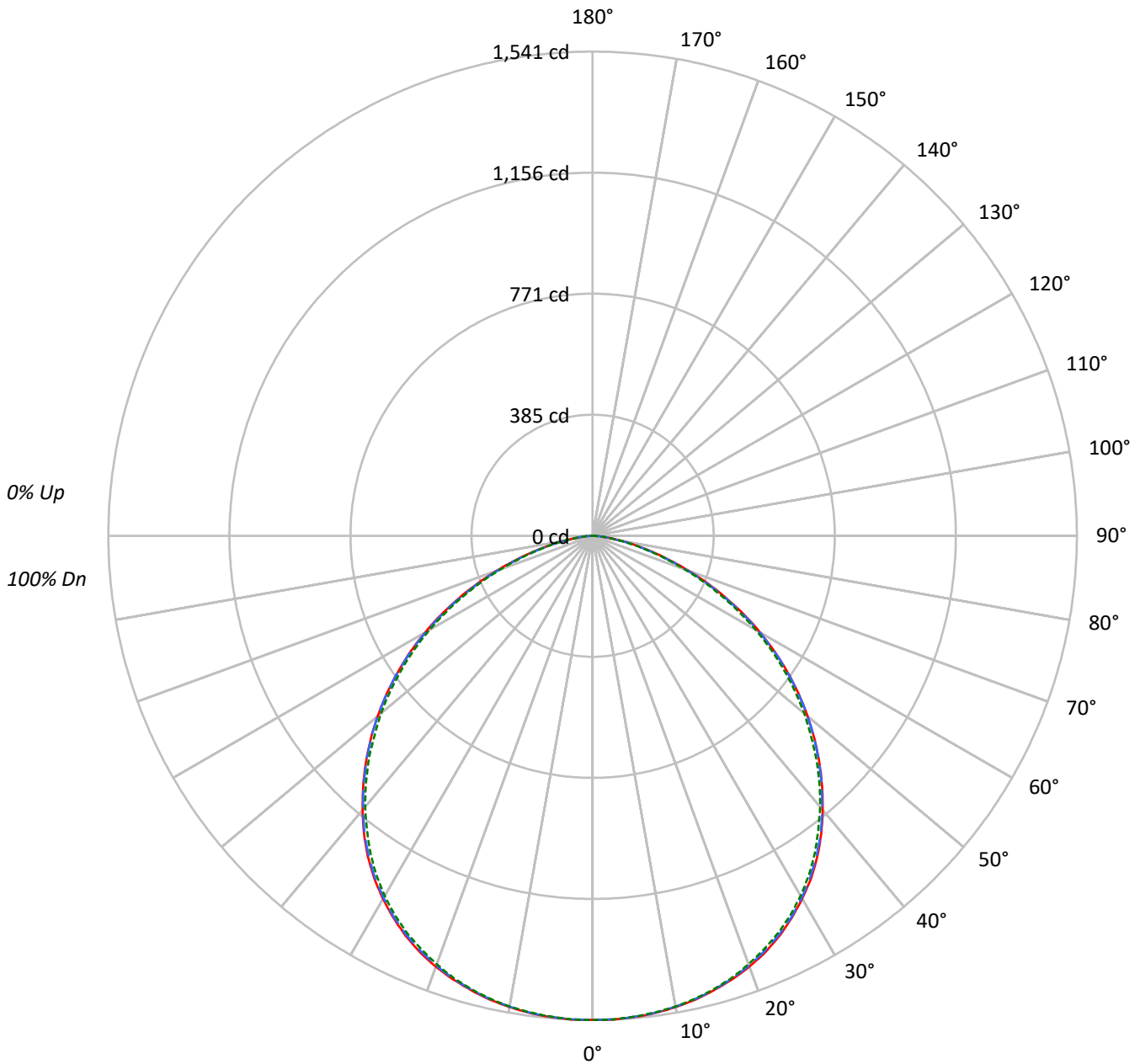
Lumens per Lamp: N/A
Luminaire Lumens: 4148.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{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	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°	2073	2073	2073
5°	2077	2076	2075
10°	2081	2079	2078
15°	2085	2082	2080
20°	2089	2084	2078
25°	2087	2081	2072
30°	2073	2067	2056
35°	2048	2041	2025
40°	2000	1995	1978
45°	1941	1938	1916
50°	1869	1868	1840
55°	1777	1774	1740
60°	1657	1650	1613
65°	1493	1475	1440
70°	1274	1255	1224
75°	1007	985	962
80°	715	697	675
85°	431	418	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.5
10°-20°	422.2	10.2
20°-30°	645.5	15.6
30°-40°	775.1	18.7
40°-50°	783.3	18.9
50°-60°	673.1	16.2
60°-70°	459.1	11.1
70°-80°	206.4	5.0
80°-90°	37.1	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°	1213.9	29.3
0°-40°	1989.0	48.0
0°-60°	3445.4	83.1
0°-90°	4148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1538	1537	1537	1536	1536	146
15°	1497	1497	1495	1494	1493	423
25°	1406	1406	1402	1397	1396	647
35°	1247	1247	1243	1235	1233	778
45°	1020	1023	1019	1012	1007	786
55°	758	760	756	749	742	676
65°	469	471	463	460	452	464
75°	194	195	189	188	185	210
85°	28	28	27	27	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.8	1540.8	1540.8	1540.8	1540.8
2.5°	1541.2	1540.8	1540.4	1539.6	1540.8
5°	1537.6	1537.2	1536.8	1536.0	1536.0
7.5°	1532.0	1531.2	1531.2	1530.0	1529.6
10°	1523.2	1522.8	1521.7	1521.7	1521.3
12.5°	1512.1	1511.3	1510.1	1509.7	1508.9
15°	1497.0	1496.6	1495.0	1493.8	1493.4
17.5°	1479.9	1478.7	1477.5	1474.7	1474.7
20°	1459.2	1458.4	1455.6	1452.8	1451.2
22.5°	1435.3	1433.7	1430.5	1427.7	1424.6
25°	1405.9	1405.5	1401.9	1397.1	1395.9
27.5°	1371.6	1372.4	1368.9	1364.1	1361.7
30°	1334.2	1335.8	1330.7	1324.7	1323.5
32.5°	1293.2	1293.6	1289.3	1282.9	1280.5
35°	1246.7	1246.7	1242.7	1235.1	1232.8
37.5°	1195.0	1194.6	1192.2	1183.4	1179.0
40°	1138.9	1140.8	1136.1	1128.1	1126.1
42.5°	1080.8	1083.1	1078.8	1072.0	1067.6
45°	1020.3	1023.1	1018.7	1011.5	1007.1
47.5°	957.8	959.8	956.6	947.5	941.5
50°	892.9	896.9	892.5	883.0	879.0
52.5°	826.1	830.5	825.3	818.1	810.6
55°	757.6	760.4	756.1	749.3	741.7
57.5°	687.2	692.8	685.6	677.7	671.3
60°	615.6	620.4	613.2	606.0	599.3
62.5°	542.8	545.9	538.0	533.6	525.7
65°	468.8	471.1	463.2	460.0	452.4
67.5°	395.5	397.5	390.0	385.6	381.2
70°	323.9	325.5	319.1	315.2	311.2
72.5°	256.3	256.7	250.7	249.5	244.7
75°	193.8	195.4	189.4	188.2	185.0
77.5°	139.3	139.7	135.7	134.9	132.1
80°	92.3	92.7	89.9	89.5	87.1
82.5°	55.7	56.1	53.7	53.7	52.1
85°	27.9	28.3	27.1	27.1	26.3
87.5°	9.6	9.9	9.6	9.6	9.2
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)