

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: P506658

Luminaire Tested: **24PD-45-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506658
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-L850
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

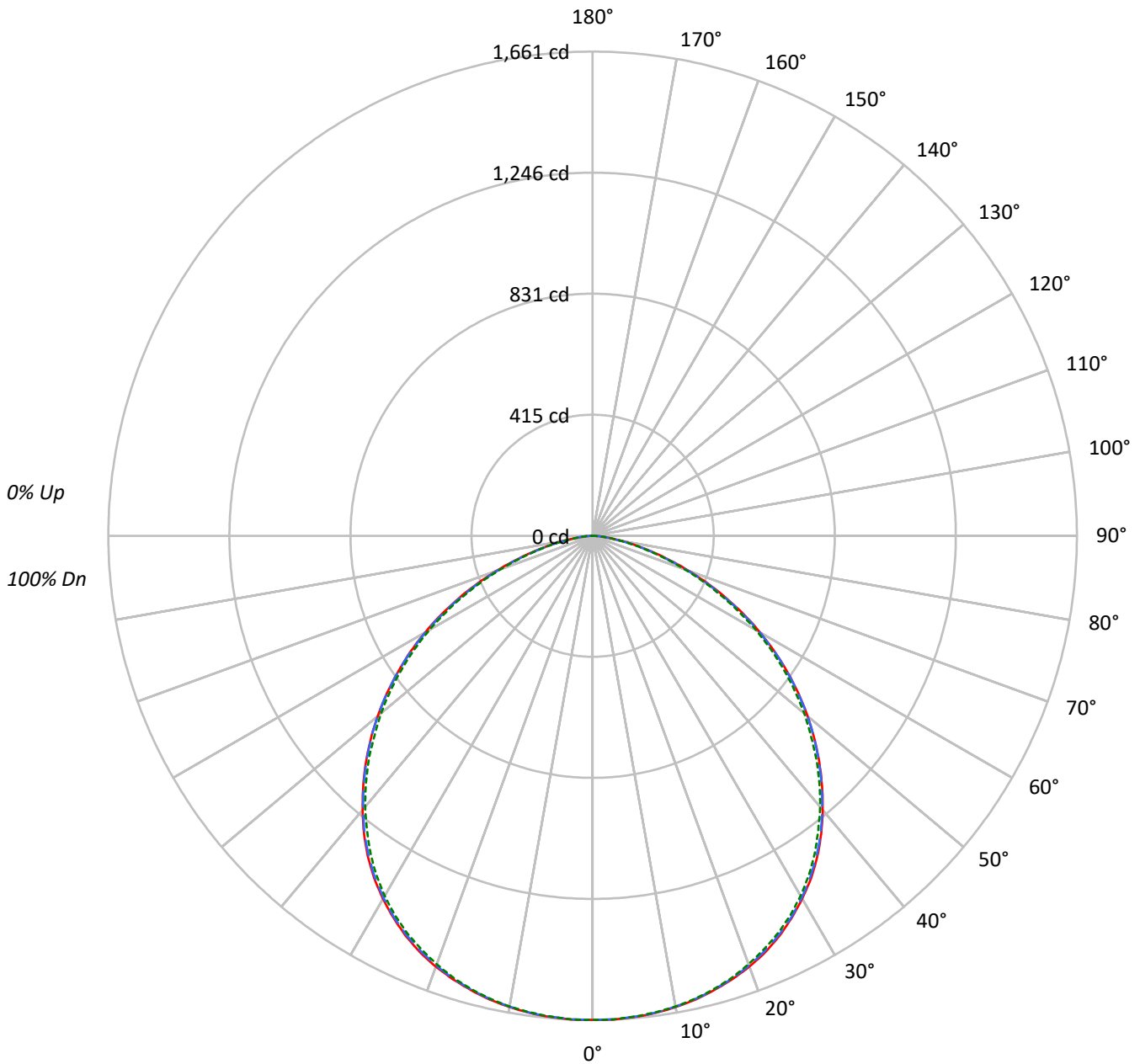
Lumens per Lamp: N/A
Luminaire Lumens: 4471.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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			100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72			72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52			52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46			46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40			40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35			35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32			32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28			28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2234	2234	2234
5°	2238	2237	2236
10°	2243	2241	2240
15°	2248	2245	2242
20°	2252	2246	2240
25°	2250	2243	2234
30°	2234	2228	2216
35°	2207	2200	2183
40°	2156	2151	2132
45°	2093	2089	2066
50°	2015	2014	1983
55°	1916	1912	1875
60°	1785	1778	1738
65°	1609	1589	1553
70°	1373	1353	1319
75°	1086	1062	1037
80°	771	751	728
85°	463	451	437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.5
10°-20°	455.1	10.2
20°-30°	695.7	15.6
30°-40°	835.5	18.7
40°-50°	844.3	18.9
50°-60°	725.4	16.2
60°-70°	494.9	11.1
70°-80°	222.5	5.0
80°-90°	40.0	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°	1308.4	29.3
0°-40°	2143.9	48.0
0°-60°	3713.6	83.1
0°-90°	4471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1657	1657	1656	1656	1656	158
15°	1614	1613	1611	1610	1610	456
25°	1515	1515	1511	1506	1505	698
35°	1344	1344	1340	1331	1329	839
45°	1100	1103	1098	1090	1086	848
55°	817	820	815	808	800	729
65°	505	508	499	496	488	500
75°	209	211	204	203	199	226
85°	30	30	29	29	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.7	1660.7	1660.7	1660.7	1660.7
2.5°	1661.2	1660.7	1660.3	1659.4	1660.7
5°	1657.3	1656.9	1656.4	1655.6	1655.6
7.5°	1651.3	1650.4	1650.4	1649.1	1648.7
10°	1641.9	1641.4	1640.1	1640.1	1639.7
12.5°	1629.8	1629.0	1627.7	1627.3	1626.4
15°	1613.6	1613.1	1611.4	1610.1	1609.7
17.5°	1595.1	1593.8	1592.5	1589.5	1589.5
20°	1572.8	1571.9	1568.9	1565.9	1564.2
22.5°	1547.1	1545.4	1541.9	1538.9	1535.5
25°	1515.3	1514.9	1511.0	1505.9	1504.6
27.5°	1478.4	1479.3	1475.4	1470.3	1467.7
30°	1438.1	1439.8	1434.3	1427.8	1426.5
32.5°	1393.9	1394.4	1389.7	1382.8	1380.2
35°	1343.8	1343.8	1339.5	1331.3	1328.8
37.5°	1288.0	1287.6	1285.0	1275.6	1270.9
40°	1227.5	1229.7	1224.5	1216.0	1213.8
42.5°	1164.9	1167.5	1162.8	1155.5	1150.8
45°	1099.7	1102.7	1098.0	1090.3	1085.6
47.5°	1032.4	1034.5	1031.1	1021.2	1014.8
50°	962.5	966.8	962.0	951.7	947.5
52.5°	890.4	895.1	889.6	881.8	873.7
55°	816.6	819.6	814.9	807.6	799.5
57.5°	740.7	746.7	739.0	730.4	723.6
60°	663.5	668.7	660.9	653.2	645.9
62.5°	585.0	588.5	579.9	575.2	566.6
65°	505.3	507.8	499.2	495.8	487.7
67.5°	426.3	428.5	420.3	415.6	410.9
70°	349.1	350.8	344.0	339.7	335.4
72.5°	276.2	276.6	270.2	268.9	263.8
75°	208.9	210.6	204.2	202.9	199.4
77.5°	150.1	150.5	146.3	145.4	142.4
80°	99.5	99.9	96.9	96.5	93.9
82.5°	60.0	60.5	57.9	57.9	56.2
85°	30.0	30.5	29.2	29.2	28.3
87.5°	10.3	10.7	10.3	10.3	9.9
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)