

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: P506653

Luminaire Tested: **24PD-45-PL1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PL1-L940
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

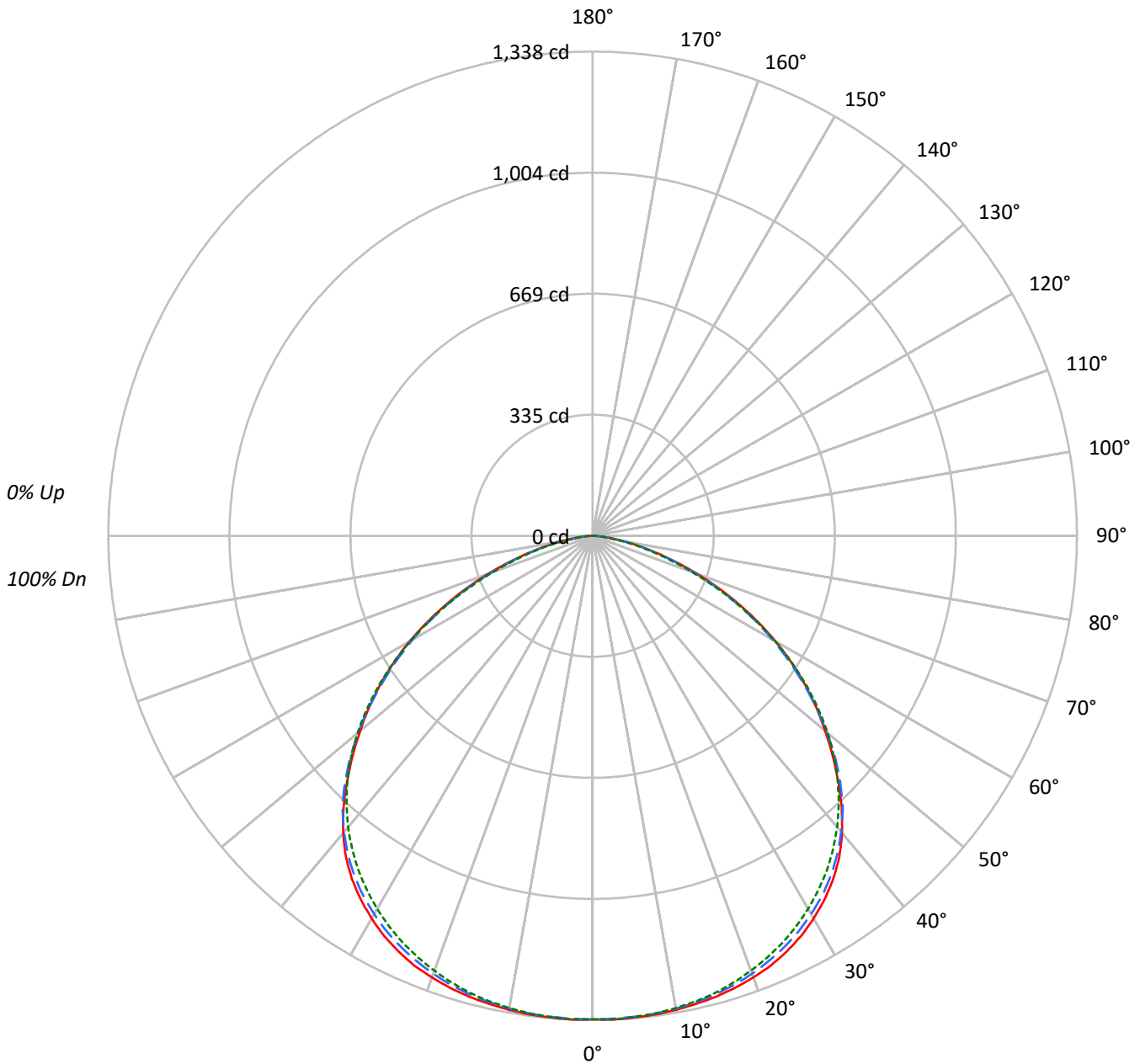
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.8 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1798	1798	1798
5°	1805	1802	1803
10°	1817	1812	1811
15°	1837	1827	1822
20°	1860	1844	1831
25°	1882	1861	1842
30°	1897	1876	1849
35°	1904	1884	1853
40°	1883	1876	1846
45°	1826	1842	1822
50°	1755	1768	1774
55°	1679	1666	1691
60°	1571	1545	1565
65°	1413	1385	1384
70°	1203	1176	1149
75°	947	926	888
80°	678	658	621
85°	401	395	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.3
10°-20°	370.9	9.7
20°-30°	578.2	15.1
30°-40°	715.5	18.7
40°-50°	741.8	19.3
50°-60°	638.7	16.7
60°-70°	433.3	11.3
70°-80°	193.4	5.0
80°-90°	34.8	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°	1076.3	28.1
0°-40°	1791.9	46.7
0°-60°	3172.3	82.7
0°-90°	3833.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1336	1335	1334	1334	1335	127
15°	1318	1315	1312	1309	1308	373
25°	1268	1263	1254	1245	1241	585
35°	1159	1156	1147	1135	1128	723
45°	960	964	968	965	958	739
55°	716	716	710	718	721	638
65°	444	446	435	430	435	439
75°	182	184	178	174	171	198
85°	26	26	26	26	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.4	1336.4	1336.4	1336.4	1336.4
2.5°	1338.2	1335.3	1335.7	1336.0	1337.5
5°	1336.4	1334.6	1334.2	1334.2	1334.6
7.5°	1334.2	1332.0	1331.7	1331.3	1331.3
10°	1330.2	1328.0	1326.5	1325.8	1325.4
12.5°	1324.7	1322.1	1320.3	1318.8	1317.7
15°	1318.5	1314.8	1311.9	1309.0	1307.9
17.5°	1309.7	1306.4	1301.3	1296.5	1294.7
20°	1298.7	1295.4	1288.1	1281.5	1279.0
22.5°	1285.9	1281.2	1272.0	1264.7	1261.0
25°	1268.0	1263.2	1253.7	1244.6	1240.9
27.5°	1247.1	1242.7	1232.5	1221.5	1217.1
30°	1221.1	1218.2	1207.2	1195.2	1190.4
32.5°	1192.2	1189.3	1179.8	1166.2	1160.8
35°	1158.9	1155.6	1147.2	1134.8	1128.2
37.5°	1119.4	1118.3	1110.3	1097.5	1091.2
40°	1072.2	1074.4	1068.2	1057.2	1051.0
42.5°	1018.4	1023.2	1023.2	1012.9	1006.7
45°	959.5	963.9	968.3	964.6	957.7
47.5°	899.1	903.9	909.0	910.5	904.6
50°	838.4	841.3	844.6	851.2	847.5
52.5°	778.0	779.1	778.0	786.8	786.0
55°	715.8	716.1	710.3	718.3	720.9
57.5°	651.0	652.1	642.6	647.0	652.5
60°	583.7	584.8	574.2	574.9	581.5
62.5°	514.1	515.6	505.0	502.4	508.3
65°	443.9	445.7	435.1	430.3	434.7
67.5°	374.0	376.2	366.3	360.5	361.5
70°	305.9	307.8	299.0	293.5	292.0
72.5°	241.2	243.0	236.0	230.5	228.0
75°	182.2	183.7	178.2	174.2	170.9
77.5°	131.0	132.1	127.7	124.8	121.5
80°	87.5	87.8	84.9	83.1	80.1
82.5°	52.3	52.7	50.9	50.1	47.9
85°	26.0	26.3	25.6	25.6	23.8
87.5°	9.1	8.8	9.1	9.1	8.1
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)