

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: P506662

Luminaire Tested: **24PD-45-PR1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506662
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-L940
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

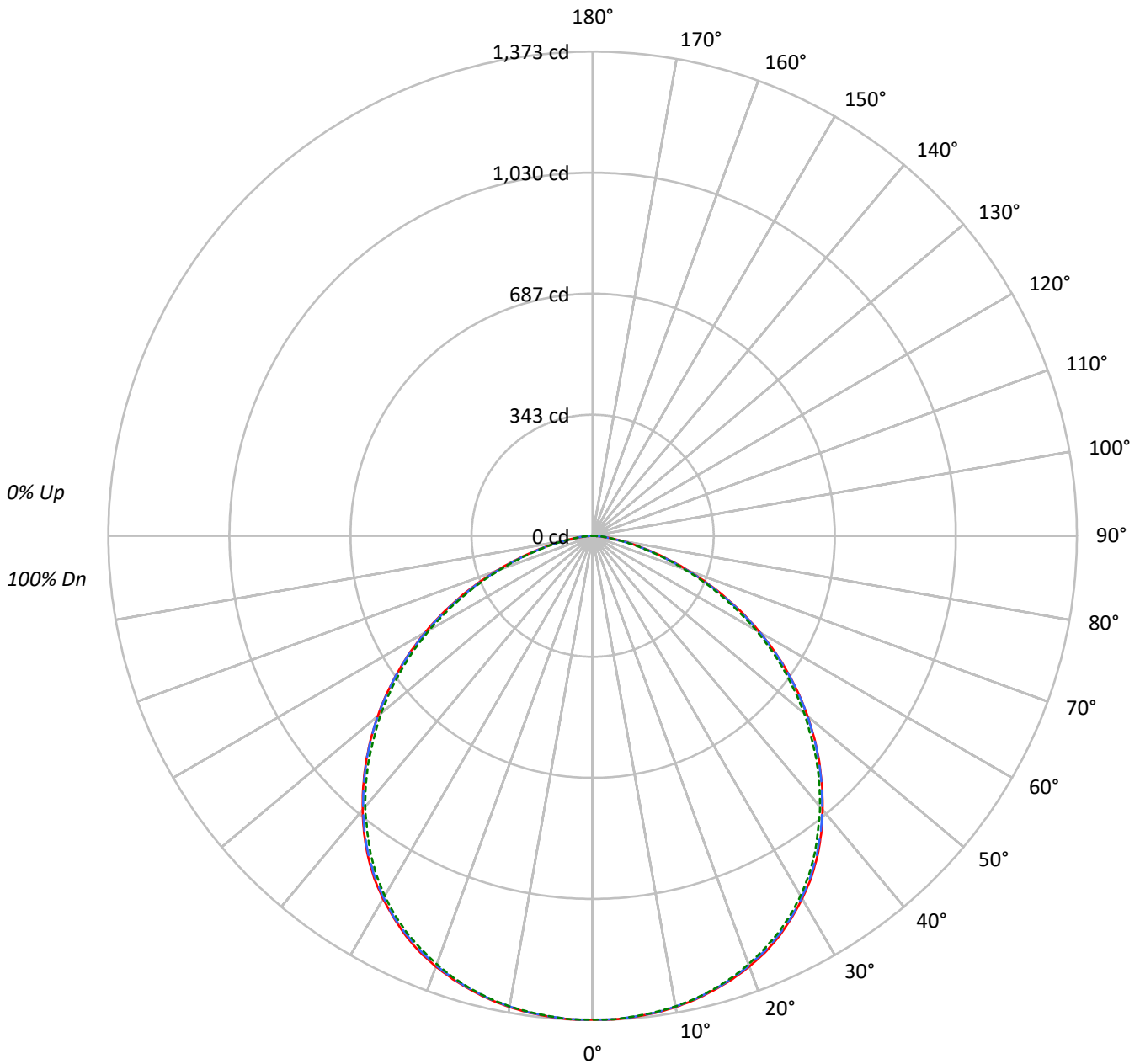
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 112.0 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°	1847	1847	1847
5°	1850	1849	1848
10°	1854	1852	1851
15°	1858	1855	1853
20°	1861	1857	1851
25°	1859	1854	1846
30°	1846	1842	1832
35°	1824	1818	1804
40°	1782	1777	1762
45°	1729	1727	1707
50°	1665	1664	1639
55°	1583	1580	1550
60°	1476	1470	1436
65°	1330	1314	1283
70°	1135	1118	1090
75°	897	877	857
80°	637	621	601
85°	383	372	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.5
10°-20°	376.1	10.2
20°-30°	575.0	15.6
30°-40°	690.5	18.7
40°-50°	697.8	18.9
50°-60°	599.6	16.2
60°-70°	409.0	11.1
70°-80°	183.9	5.0
80°-90°	33.1	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°	1081.3	29.3
0°-40°	1771.8	48.0
0°-60°	3069.1	83.1
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1370	1369	1369	1368	1368	130
15°	1334	1333	1332	1331	1330	377
25°	1252	1252	1249	1244	1244	577
35°	1110	1110	1107	1100	1098	693
45°	909	911	907	901	897	700
55°	675	677	674	668	661	602
65°	418	420	413	410	403	413
75°	173	174	169	168	165	187
85°	25	25	24	24	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.5	1372.5	1372.5	1372.5	1372.5
2.5°	1372.8	1372.5	1372.1	1371.4	1372.5
5°	1369.7	1369.3	1368.9	1368.2	1368.2
7.5°	1364.7	1364.0	1364.0	1362.9	1362.6
10°	1356.9	1356.5	1355.5	1355.5	1355.1
12.5°	1347.0	1346.3	1345.2	1344.8	1344.1
15°	1333.5	1333.1	1331.7	1330.7	1330.3
17.5°	1318.3	1317.2	1316.1	1313.6	1313.6
20°	1299.8	1299.1	1296.6	1294.2	1292.7
22.5°	1278.6	1277.1	1274.3	1271.8	1269.0
25°	1252.3	1252.0	1248.8	1244.5	1243.5
27.5°	1221.8	1222.6	1219.4	1215.1	1213.0
30°	1188.5	1189.9	1185.3	1180.0	1179.0
32.5°	1152.0	1152.4	1148.5	1142.8	1140.7
35°	1110.5	1110.5	1107.0	1100.3	1098.1
37.5°	1064.5	1064.1	1062.0	1054.2	1050.3
40°	1014.5	1016.3	1012.0	1004.9	1003.1
42.5°	962.7	964.9	961.0	954.9	951.0
45°	908.8	911.3	907.4	901.1	897.2
47.5°	853.2	855.0	852.1	844.0	838.7
50°	795.4	799.0	795.1	786.6	783.0
52.5°	735.9	739.8	735.2	728.8	722.0
55°	674.9	677.4	673.5	667.5	660.7
57.5°	612.2	617.1	610.7	603.7	598.0
60°	548.4	552.6	546.2	539.9	533.8
62.5°	483.5	486.3	479.2	475.3	468.2
65°	417.6	419.7	412.6	409.8	403.0
67.5°	352.3	354.1	347.4	343.5	339.6
70°	288.5	290.0	284.3	280.7	277.2
72.5°	228.3	228.6	223.3	222.2	218.0
75°	172.6	174.0	168.7	167.7	164.8
77.5°	124.1	124.4	120.9	120.2	117.7
80°	82.2	82.6	80.1	79.8	77.6
82.5°	49.6	50.0	47.9	47.9	46.4
85°	24.8	25.2	24.1	24.1	23.4
87.5°	8.5	8.9	8.5	8.5	8.2
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)