

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: P220245

Luminaire Tested: **R3-WN-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-2L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

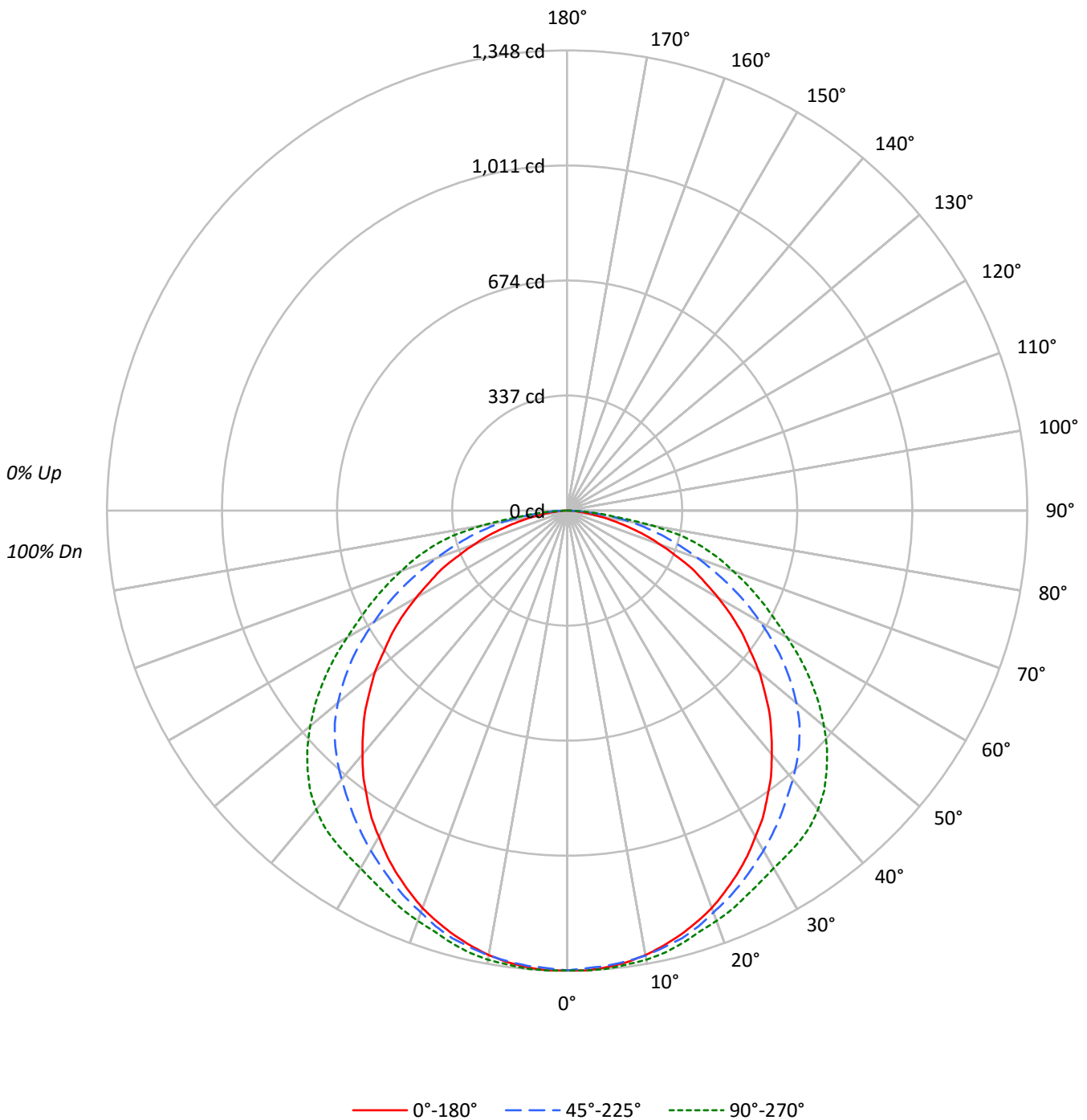
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1812	1812	1812
5°	1814	1808	1819
10°	1806	1808	1825
15°	1791	1807	1826
20°	1774	1794	1831
25°	1747	1790	1847
30°	1714	1787	1880
35°	1680	1791	1946
40°	1638	1806	2008
45°	1595	1830	2046
50°	1537	1836	2057
55°	1466	1814	2045
60°	1376	1760	2002
65°	1288	1690	1998
70°	1139	1603	2033
75°	958	1535	2132
80°	730	1461	1965
85°	492	1070	1304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.1
10°-20°	366.4	9.0
20°-30°	557.9	13.7
30°-40°	687.4	16.9
40°-50°	738.0	18.1
50°-60°	677.5	16.7
60°-70°	518.2	12.7
70°-80°	314.2	7.7
80°-90°	80.7	2.0
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°	1051.9	25.9
0°-40°	1739.3	42.8
0°-60°	3154.8	77.6
0°-90°	4067.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1343	1341	1339	1346	1347	128
15°	1286	1290	1297	1310	1311	363
25°	1176	1188	1206	1236	1244	542
35°	1023	1039	1091	1157	1185	640
45°	838	865	962	1049	1075	645
55°	625	666	773	848	872	557
65°	405	445	531	601	628	396
75°	184	224	295	377	410	198
85°	32	54	69	79	84	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1348.3	1347.0	1341.4	1347.0	1348.3
5°	1342.8	1341.4	1338.6	1345.6	1347.0
7.5°	1334.5	1334.5	1331.7	1341.4	1341.4
10°	1322.0	1322.0	1323.4	1333.1	1335.9
12.5°	1305.4	1308.2	1310.9	1324.8	1326.2
15°	1286.0	1290.1	1297.1	1309.5	1310.9
17.5°	1263.8	1269.3	1277.7	1290.1	1292.9
20°	1238.9	1244.4	1252.7	1273.5	1279.0
22.5°	1208.4	1219.5	1230.5	1255.5	1263.8
25°	1176.5	1187.6	1205.6	1236.1	1244.4
27.5°	1141.9	1152.9	1177.9	1213.9	1226.4
30°	1103.1	1116.9	1150.2	1191.7	1209.8
32.5°	1067.0	1079.5	1121.1	1173.7	1197.3
35°	1022.7	1039.3	1090.6	1157.1	1184.8
37.5°	981.1	997.7	1058.7	1140.5	1168.2
40°	932.6	954.8	1028.2	1116.9	1143.2
42.5°	885.5	910.4	996.4	1086.4	1114.1
45°	838.4	864.7	961.7	1049.0	1075.3
47.5°	784.3	816.2	922.9	1008.8	1032.4
50°	734.4	769.1	877.2	960.3	982.5
52.5°	676.2	719.2	825.9	909.1	929.8
55°	625.0	666.5	773.3	848.1	871.6
57.5°	569.5	615.3	715.0	787.1	810.7
60°	511.3	558.5	654.1	726.1	744.1
62.5°	454.5	508.6	594.5	661.0	683.2
65°	404.6	444.8	530.7	601.4	627.7
67.5°	343.7	388.0	467.0	540.4	572.3
70°	289.6	332.6	407.4	485.0	516.9
72.5°	238.3	275.8	349.2	431.0	467.0
75°	184.3	224.5	295.2	376.9	410.2
77.5°	138.6	176.0	239.7	321.5	345.1
80°	94.2	130.3	188.5	245.3	253.6
82.5°	59.6	90.1	128.9	145.5	145.5
85°	31.9	54.0	69.3	79.0	84.5
87.5°	12.5	18.0	26.3	26.3	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)