

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: P220236

Luminaire Tested: **R3-WN-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220236
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-3L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.4 lumens
Efficiency: N/A
Efficacy: 120.2 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

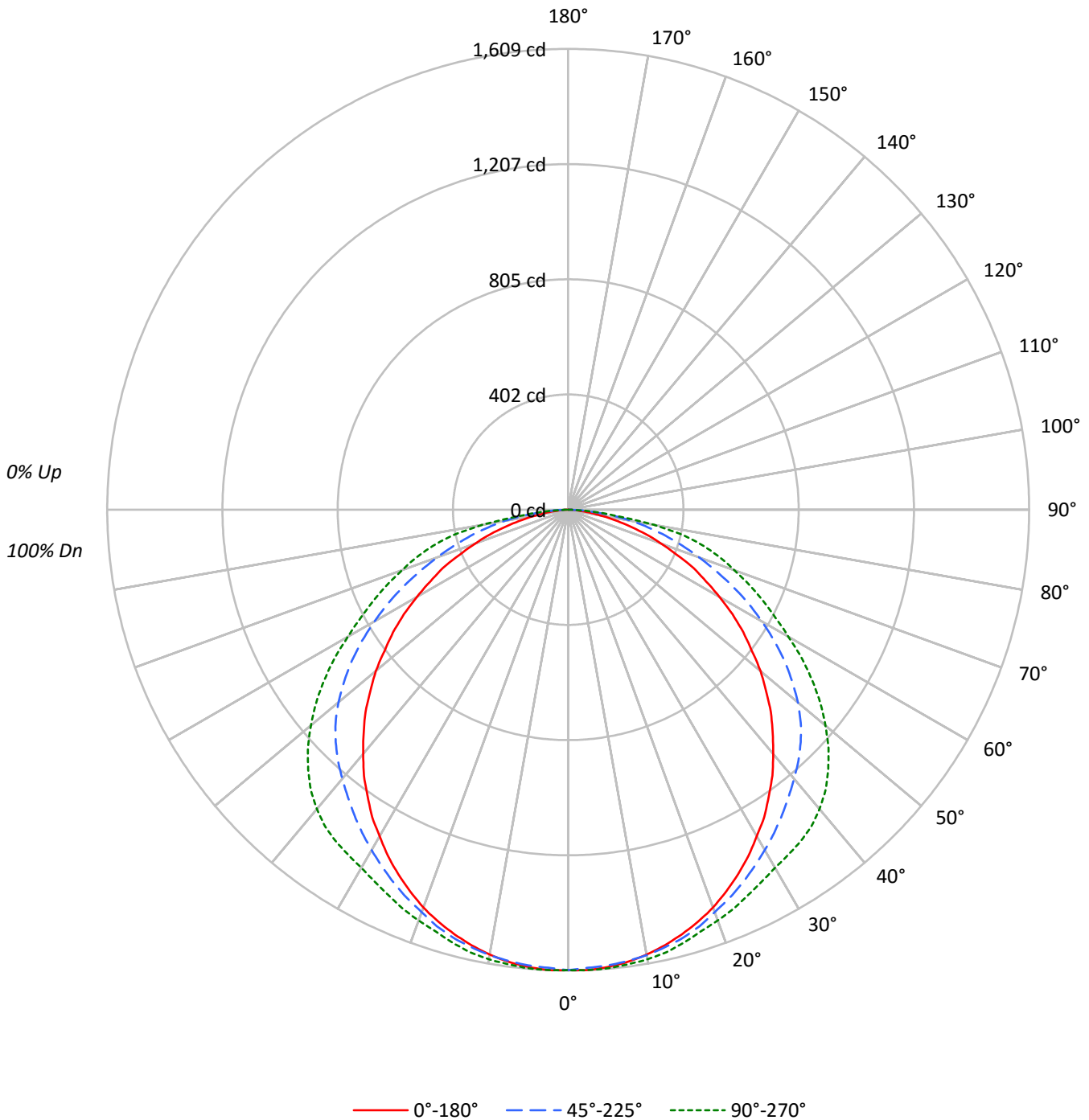
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2163	2163	2163
5°	2164	2158	2171
10°	2155	2158	2178
15°	2138	2156	2179
20°	2117	2140	2185
25°	2084	2136	2205
30°	2045	2133	2243
35°	2005	2138	2322
40°	1955	2155	2396
45°	1904	2184	2442
50°	1834	2191	2454
55°	1749	2165	2440
60°	1642	2100	2390
65°	1537	2017	2385
70°	1360	1913	2426
75°	1143	1831	2545
80°	872	1743	2345
85°	587	1277	1558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.1
10°-20°	437.2	9.0
20°-30°	665.7	13.7
30°-40°	820.3	16.9
40°-50°	880.7	18.1
50°-60°	808.5	16.7
60°-70°	618.4	12.7
70°-80°	374.9	7.7
80°-90°	96.3	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°	1255.3	25.9
0°-40°	2075.6	42.8
0°-60°	3764.8	77.6
0°-90°	4854.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4854.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1602	1601	1598	1606	1607	152
15°	1535	1540	1548	1563	1564	433
25°	1404	1417	1439	1475	1485	647
35°	1220	1240	1301	1381	1414	764
45°	1000	1032	1148	1252	1283	770
55°	746	795	923	1012	1040	665
65°	483	531	633	718	749	473
75°	220	268	352	450	490	237
85°	38	64	83	94	101	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1609.0	1607.4	1600.8	1607.4	1609.0
5°	1602.4	1600.8	1597.5	1605.7	1607.4
7.5°	1592.5	1592.5	1589.2	1600.8	1600.8
10°	1577.6	1577.6	1579.3	1590.8	1594.1
12.5°	1557.8	1561.1	1564.4	1580.9	1582.6
15°	1534.6	1539.6	1547.8	1562.7	1564.4
17.5°	1508.2	1514.8	1524.7	1539.6	1542.9
20°	1478.4	1485.0	1494.9	1519.7	1526.3
22.5°	1442.0	1455.2	1468.5	1498.2	1508.2
25°	1404.0	1417.2	1438.7	1475.1	1485.0
27.5°	1362.6	1375.9	1405.6	1448.6	1463.5
30°	1316.3	1332.9	1372.6	1422.2	1443.7
32.5°	1273.3	1288.2	1337.8	1400.7	1428.8
35°	1220.4	1240.3	1301.4	1380.8	1413.9
37.5°	1170.8	1190.6	1263.4	1361.0	1394.1
40°	1112.9	1139.4	1227.0	1332.9	1364.3
42.5°	1056.7	1086.5	1189.0	1296.5	1329.6
45°	1000.5	1031.9	1147.7	1251.8	1283.3
47.5°	936.0	974.0	1101.3	1203.9	1232.0
50°	876.4	917.8	1046.8	1146.0	1172.5
52.5°	807.0	858.3	985.6	1084.8	1109.6
55°	745.8	795.4	922.8	1012.1	1040.2
57.5°	679.7	734.2	853.3	939.3	967.4
60°	610.2	666.4	780.5	866.5	888.0
62.5°	542.4	606.9	709.4	788.8	815.3
65°	482.9	530.8	633.4	717.7	749.1
67.5°	410.1	463.0	557.3	644.9	683.0
70°	345.6	396.9	486.2	578.8	616.8
72.5°	284.4	329.1	416.7	514.3	557.3
75°	219.9	267.9	352.2	449.8	489.5
77.5°	165.4	210.0	286.1	383.7	411.8
80°	112.5	155.4	224.9	292.7	302.6
82.5°	71.1	107.5	153.8	173.6	173.6
85°	38.0	64.5	82.7	94.3	100.9
87.5°	14.9	21.5	31.4	31.4	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)