

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: P220193

Luminaire Tested: **R3-WL-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-2L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3917.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

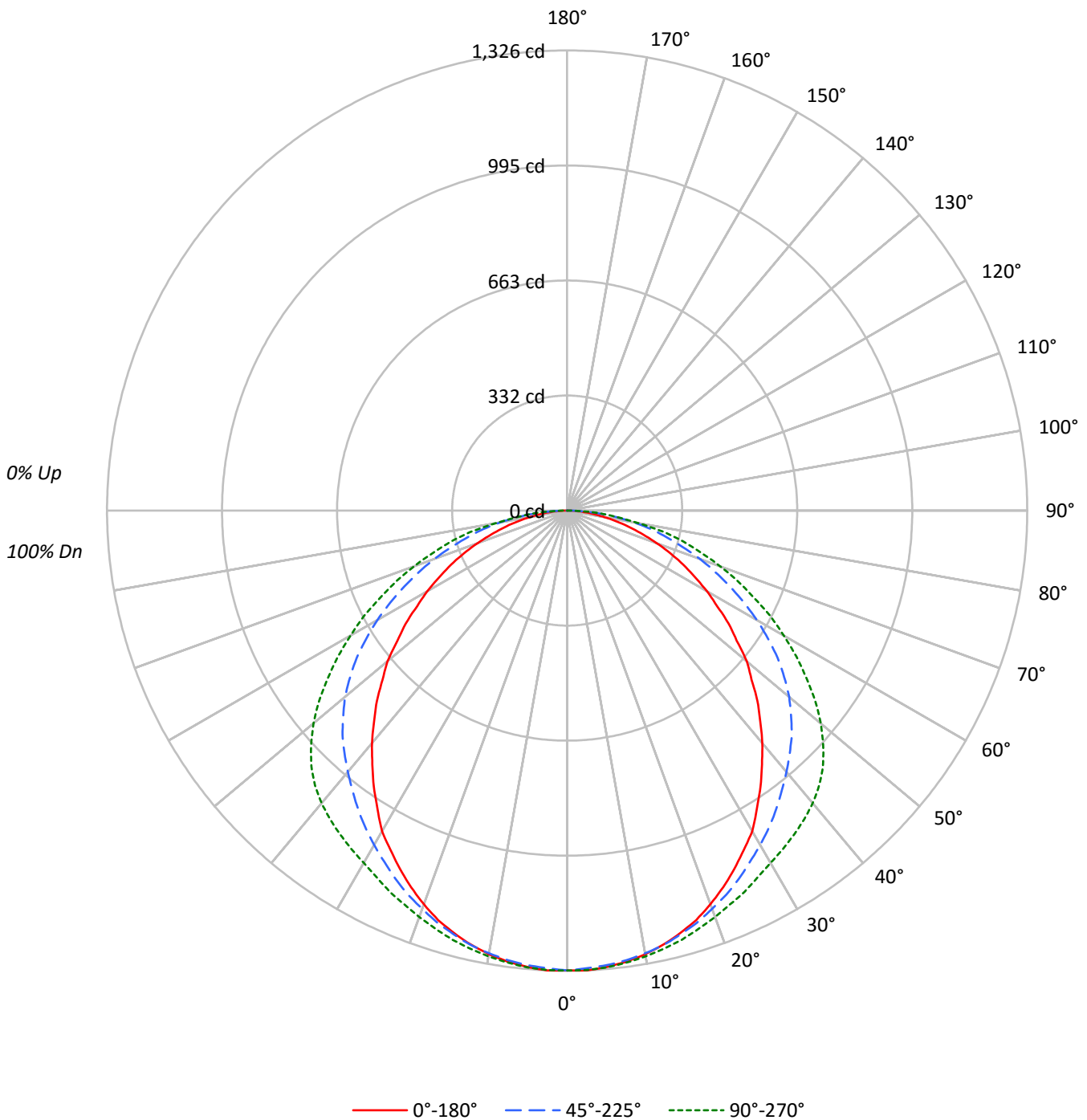
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	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	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	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	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1783	1783	1783
5°	1783	1776	1785
10°	1773	1770	1782
15°	1756	1761	1783
20°	1729	1749	1784
25°	1692	1738	1798
30°	1658	1729	1821
35°	1595	1725	1872
40°	1537	1726	1934
45°	1475	1742	1984
50°	1414	1748	1998
55°	1332	1737	1974
60°	1253	1699	1940
65°	1177	1647	1891
70°	1081	1597	1847
75°	977	1543	1807
80°	854	1517	1618
85°	741	1362	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.2
10°-20°	357.8	9.1
20°-30°	541.2	13.8
30°-40°	660.1	16.8
40°-50°	702.5	17.9
50°-60°	644.0	16.4
60°-70°	495.0	12.6
70°-80°	299.9	7.7
80°-90°	91.7	2.3
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°	1024.3	26.1
0°-40°	1684.4	43.0
0°-60°	3030.8	77.4
0°-90°	3917.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3917.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1320	1319	1315	1321	1321	125
15°	1260	1262	1264	1276	1280	355
25°	1140	1149	1171	1200	1211	525
35°	971	995	1050	1115	1140	607
45°	775	812	916	1013	1043	597
55°	568	617	740	821	842	507
65°	370	416	517	580	594	365
75°	188	230	297	341	348	200
85°	48	71	88	98	97	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1326.5	1323.9	1320.0	1325.2	1325.2
5°	1320.0	1318.8	1314.9	1321.3	1321.3
7.5°	1311.0	1309.7	1307.1	1314.9	1313.6
10°	1298.0	1296.7	1295.4	1304.5	1304.5
12.5°	1281.1	1281.1	1282.4	1291.5	1292.8
15°	1260.4	1261.7	1264.3	1276.0	1279.9
17.5°	1237.1	1238.4	1244.8	1260.4	1263.0
20°	1207.2	1211.1	1221.5	1242.2	1246.1
22.5°	1174.8	1181.3	1198.2	1221.5	1228.0
25°	1139.8	1148.9	1170.9	1199.5	1211.1
27.5°	1102.2	1112.6	1141.1	1177.4	1190.4
30°	1067.2	1077.6	1112.6	1158.0	1172.2
32.5°	1017.9	1036.1	1082.8	1135.9	1156.7
35°	971.2	994.6	1050.3	1115.2	1139.8
37.5°	922.0	951.8	1016.6	1095.7	1121.7
40°	875.3	906.4	982.9	1071.1	1100.9
42.5°	823.4	859.7	949.2	1043.9	1075.0
45°	775.4	811.7	915.5	1012.7	1042.6
47.5°	721.0	763.8	875.3	976.4	1001.1
50°	675.6	715.8	835.1	928.4	954.4
52.5°	615.9	669.1	788.4	876.6	901.2
55°	568.0	617.2	740.4	820.8	841.6
57.5°	512.2	571.8	686.0	765.1	783.2
60°	465.5	517.4	631.5	704.1	721.0
62.5°	414.9	470.7	574.4	641.9	661.3
65°	369.6	416.2	517.4	579.6	593.9
67.5°	321.6	369.6	461.6	518.7	532.9
70°	274.9	325.5	405.9	457.7	469.4
72.5°	229.5	273.6	348.8	399.4	405.9
75°	188.0	229.5	296.9	341.0	347.5
77.5°	149.1	186.7	247.7	282.7	285.3
80°	110.2	146.5	195.8	214.0	208.8
82.5°	77.8	106.3	142.6	146.5	143.9
85°	48.0	71.3	88.2	98.5	97.3
87.5°	20.7	32.4	45.4	42.8	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)