

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: P220221

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-2L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3661.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

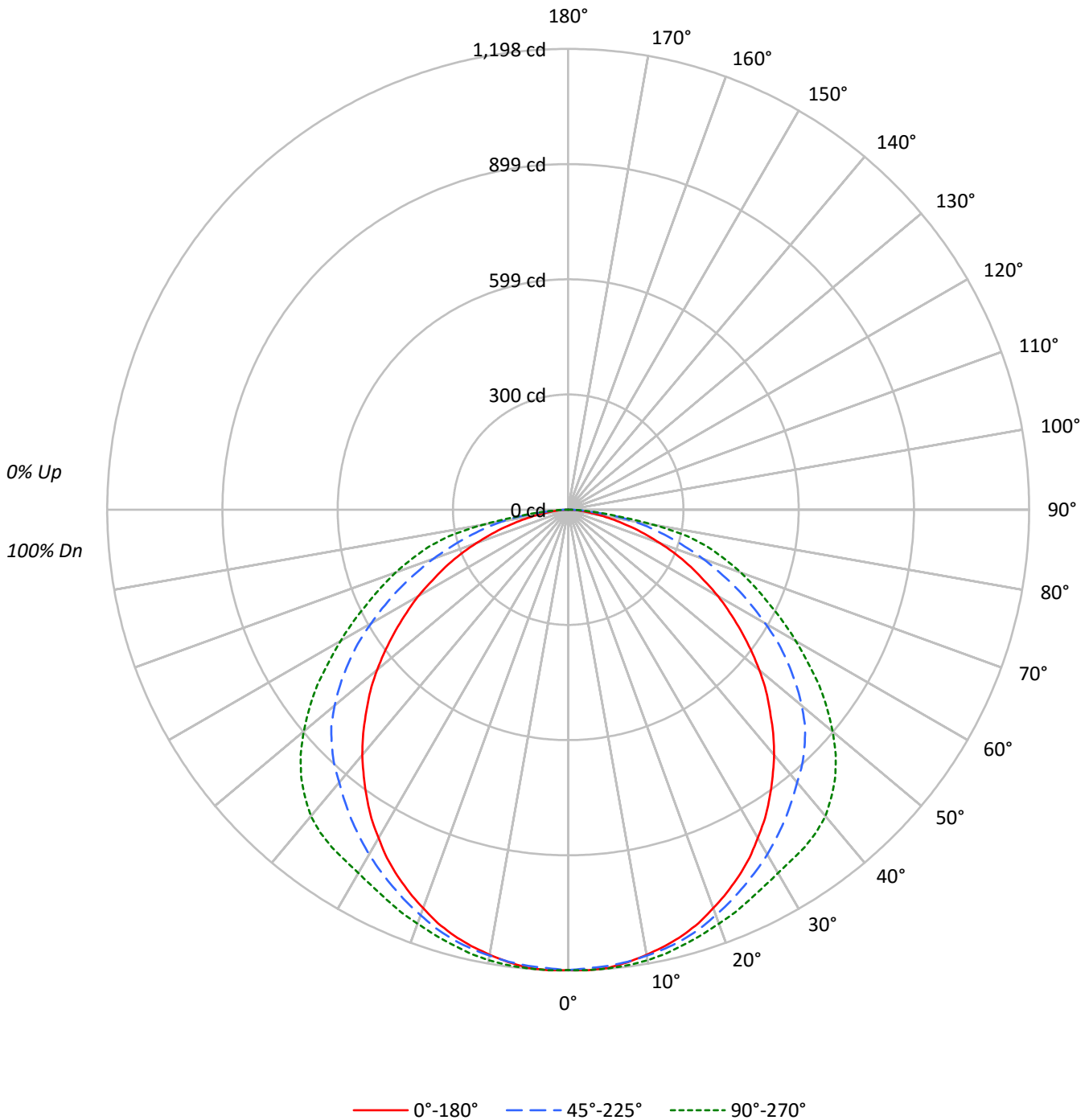
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
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°	1610	1610	1610
5°	1615	1608	1617
10°	1605	1609	1625
15°	1597	1611	1629
20°	1578	1606	1639
25°	1559	1604	1659
30°	1531	1608	1694
35°	1499	1614	1759
40°	1462	1626	1827
45°	1411	1653	1868
50°	1357	1658	1878
55°	1284	1636	1868
60°	1211	1591	1839
65°	1119	1536	1829
70°	995	1464	1877
75°	843	1389	1955
80°	663	1347	1748
85°	480	902	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.1
10°-20°	326.9	8.9
20°-30°	499.9	13.7
30°-40°	618.2	16.9
40°-50°	665.7	18.2
50°-60°	611.1	16.7
60°-70°	469.1	12.8
70°-80°	285.5	7.8
80°-90°	71.3	1.9
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°	940.3	25.7
0°-40°	1558.5	42.6
0°-60°	2835.3	77.4
0°-90°	3661.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1196	1193	1190	1196	1197	113
15°	1146	1149	1157	1168	1170	323
25°	1050	1062	1080	1110	1118	484
35°	913	930	983	1045	1071	571
45°	742	773	869	953	982	573
55°	547	591	698	773	796	490
65°	351	398	482	551	574	347
75°	162	204	267	345	376	174
85°	31	49	58	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.9	1196.9	1196.9	1196.9	1196.9
2.5°	1198.2	1196.9	1193.0	1196.9	1198.2
5°	1195.6	1193.0	1190.4	1195.6	1196.9
7.5°	1186.5	1186.5	1185.2	1193.0	1194.3
10°	1174.8	1177.4	1177.4	1187.8	1189.1
12.5°	1161.9	1164.4	1168.3	1180.0	1181.3
15°	1146.3	1148.9	1156.7	1168.3	1169.6
17.5°	1126.8	1132.0	1141.1	1154.1	1158.0
20°	1102.2	1111.3	1121.7	1141.1	1145.0
22.5°	1077.6	1087.9	1102.2	1124.2	1133.3
25°	1050.3	1062.0	1080.2	1110.0	1117.8
27.5°	1020.5	1032.2	1058.1	1091.8	1103.5
30°	985.5	998.5	1034.8	1073.7	1090.5
32.5°	951.8	964.8	1008.8	1058.1	1080.2
35°	912.9	929.7	982.9	1045.1	1071.1
37.5°	872.7	890.8	954.4	1032.2	1058.1
40°	832.5	853.2	925.9	1014.0	1040.0
42.5°	788.4	813.0	899.9	985.5	1012.7
45°	741.7	772.8	868.8	953.1	981.6
47.5°	697.6	730.0	835.1	918.1	942.7
50°	648.4	686.0	792.3	874.0	897.3
52.5°	597.8	641.9	746.9	828.6	848.0
55°	547.2	591.3	697.6	772.8	796.2
57.5°	497.9	548.5	648.4	719.7	737.8
60°	450.0	497.9	591.3	661.3	683.4
62.5°	398.1	450.0	536.8	606.9	628.9
65°	351.4	398.1	482.4	551.1	574.4
67.5°	303.4	347.5	425.3	495.3	525.2
70°	252.9	296.9	372.2	446.1	477.2
72.5°	207.5	247.7	317.7	396.8	426.6
75°	162.1	203.6	267.1	344.9	376.0
77.5°	121.9	159.5	219.1	293.1	317.7
80°	85.6	120.6	173.8	219.1	225.6
82.5°	55.8	84.3	114.1	127.1	128.4
85°	31.1	49.3	58.4	60.9	64.8
87.5°	13.0	16.9	22.0	23.3	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)