

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: P220226

Luminaire Tested: **R3-WD-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220226
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-2L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3736.3 lumens
Efficiency: N/A
Efficacy: 122.5 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

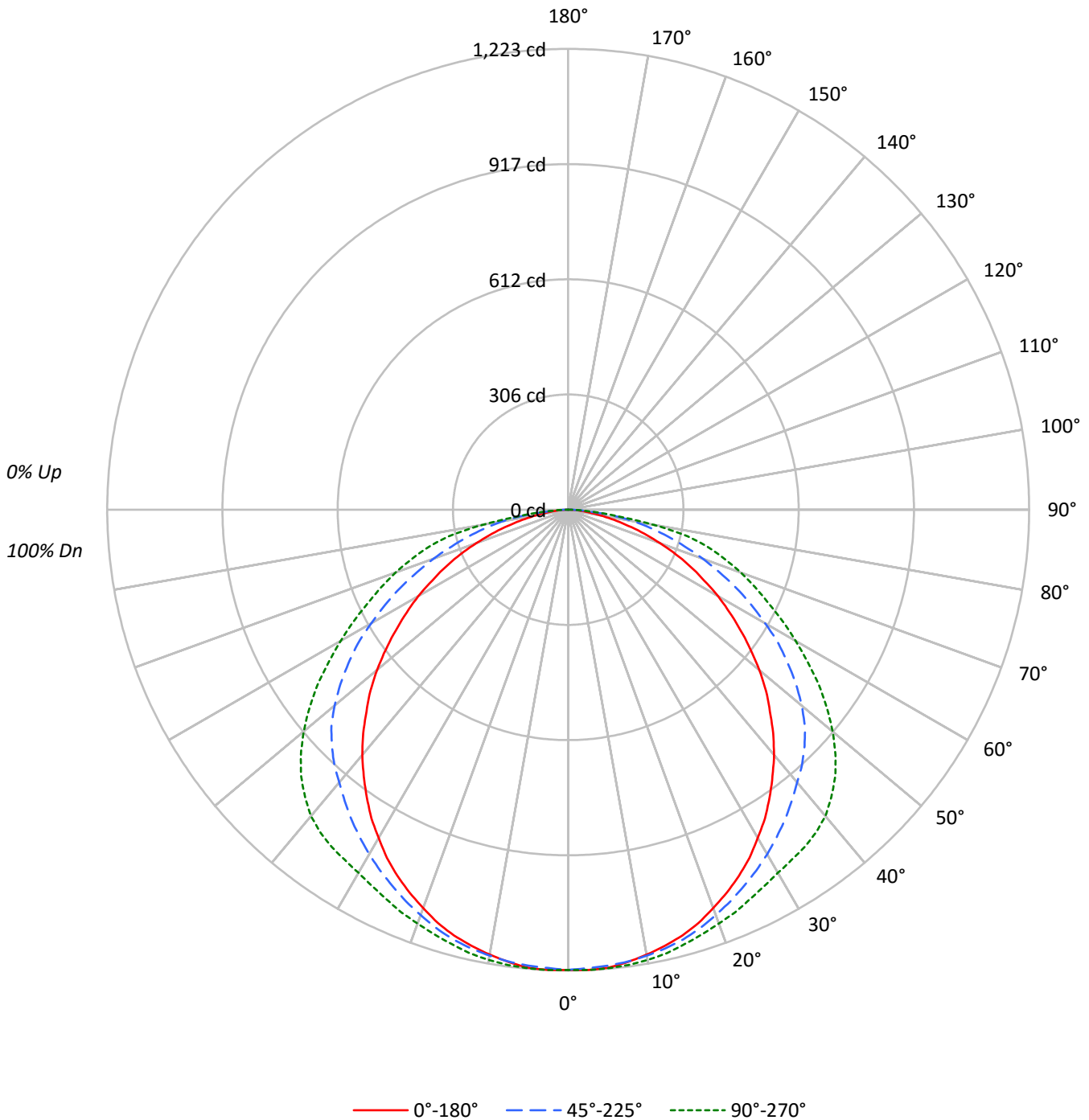
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1643	1643	1643
5°	1648	1641	1650
10°	1638	1642	1658
15°	1629	1644	1663
20°	1611	1639	1673
25°	1591	1636	1693
30°	1562	1641	1729
35°	1530	1648	1795
40°	1492	1660	1864
45°	1440	1687	1906
50°	1385	1693	1917
55°	1310	1670	1906
60°	1236	1624	1877
65°	1142	1567	1866
70°	1015	1494	1916
75°	860	1417	1995
80°	676	1374	1784
85°	491	919	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.1
10°-20°	333.6	8.9
20°-30°	510.2	13.7
30°-40°	630.9	16.9
40°-50°	679.4	18.2
50°-60°	623.6	16.7
60°-70°	478.7	12.8
70°-80°	291.4	7.8
80°-90°	72.7	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°	959.6	25.7
0°-40°	1590.5	42.6
0°-60°	2893.5	77.4
0°-90°	3736.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1220	1218	1215	1220	1221	116
15°	1170	1172	1180	1192	1194	330
25°	1072	1084	1102	1133	1141	493
35°	932	949	1003	1067	1093	582
45°	757	789	887	973	1002	584
55°	558	603	712	789	812	500
65°	359	406	492	562	586	354
75°	165	208	273	352	384	178
85°	32	50	60	62	66	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1222.8	1221.4	1217.5	1221.4	1222.8
5°	1220.1	1217.5	1214.8	1220.1	1221.4
7.5°	1210.8	1210.8	1209.5	1217.5	1218.8
10°	1198.9	1201.6	1201.6	1212.2	1213.5
12.5°	1185.7	1188.3	1192.3	1204.2	1205.5
15°	1169.8	1172.5	1180.4	1192.3	1193.6
17.5°	1150.0	1155.3	1164.5	1177.8	1181.7
20°	1124.8	1134.1	1144.7	1164.5	1168.5
22.5°	1099.7	1110.3	1124.8	1147.3	1156.6
25°	1071.9	1083.8	1102.3	1132.8	1140.7
27.5°	1041.5	1053.4	1079.8	1114.2	1126.1
30°	1005.7	1019.0	1056.0	1095.7	1112.9
32.5°	971.3	984.6	1029.5	1079.8	1102.3
35°	931.6	948.8	1003.1	1066.6	1093.1
37.5°	890.6	909.1	974.0	1053.4	1079.8
40°	849.6	870.7	944.9	1034.8	1061.3
42.5°	804.6	829.7	918.4	1005.7	1033.5
45°	756.9	788.7	886.6	972.6	1001.8
47.5°	711.9	745.0	852.2	936.9	962.1
50°	661.7	700.0	808.6	891.9	915.7
52.5°	610.1	655.0	762.2	845.6	865.5
55°	558.4	603.4	711.9	788.7	812.5
57.5°	508.2	559.8	661.7	734.4	753.0
60°	459.2	508.2	603.4	674.9	697.4
62.5°	406.3	459.2	547.9	619.3	641.8
65°	358.6	406.3	492.3	562.4	586.2
67.5°	309.7	354.7	434.0	505.5	535.9
70°	258.0	303.0	379.8	455.2	487.0
72.5°	211.7	252.8	324.2	404.9	435.4
75°	165.4	207.8	272.6	352.0	383.8
77.5°	124.4	162.8	223.6	299.1	324.2
80°	87.3	123.1	177.3	223.6	230.3
82.5°	56.9	86.0	116.5	129.7	131.0
85°	31.8	50.3	59.5	62.2	66.2
87.5°	13.2	17.2	22.5	23.8	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)