

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: P219974

Luminaire Tested: **R3-WD-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-3L30-LD5-UNV-14
Description: CLASS R3 1X4 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: 3641.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

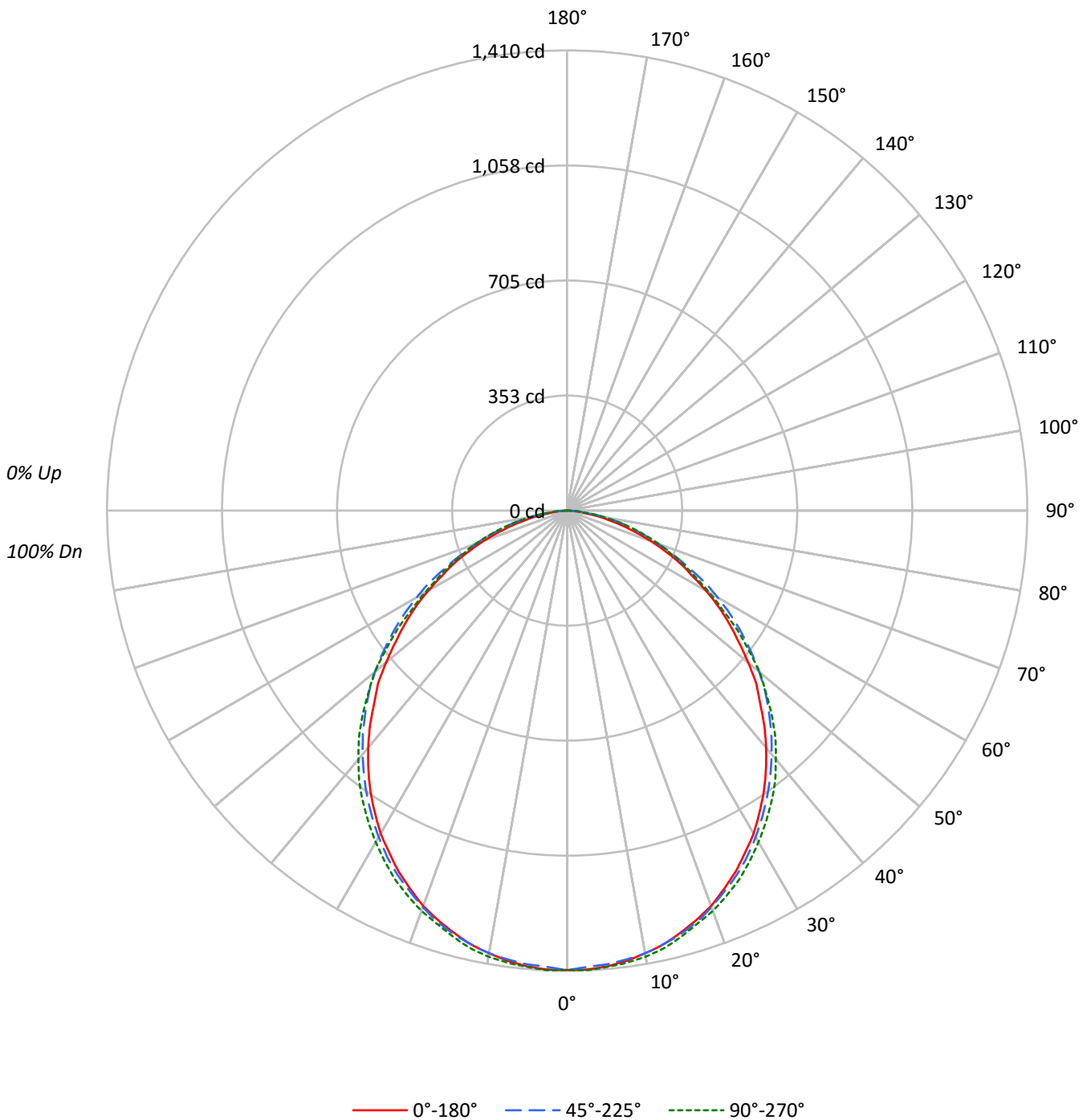
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3788	3788	3788
5°	3786	3770	3791
10°	3764	3764	3792
15°	3732	3743	3765
20°	3692	3704	3738
25°	3626	3656	3703
30°	3551	3589	3645
35°	3452	3511	3583
40°	3332	3423	3494
45°	3182	3327	3373
50°	3031	3215	3224
55°	2851	3058	2982
60°	2644	2871	2709
65°	2439	2592	2515
70°	2146	2335	2351
75°	1772	2105	2126
80°	1367	1771	1740
85°	929	1238	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.7
10°-20°	379.6	10.4
20°-30°	568.0	15.6
30°-40°	669.3	18.4
40°-50°	669.7	18.4
50°-60°	568.7	15.6
60°-70°	397.0	10.9
70°-80°	209.1	5.7
80°-90°	47.2	1.3
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°	1080.8	29.7
0°-40°	1750.0	48.1
0°-60°	2988.4	82.1
0°-90°	3641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1402	1402	1396	1404	1404	133
15°	1340	1344	1344	1352	1352	378
25°	1221	1227	1231	1247	1247	562
35°	1051	1057	1069	1087	1091	656
45°	836	850	874	888	886	647
55°	608	630	652	648	636	543
65°	383	403	407	399	395	376
75°	170	192	202	204	204	183
85°	30	38	40	38	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1407.6	1405.6	1399.6	1407.6	1409.6
5°	1401.6	1401.6	1395.6	1403.6	1403.6
7.5°	1391.6	1393.6	1387.6	1397.6	1397.6
10°	1377.5	1379.6	1377.5	1387.6	1387.6
12.5°	1361.5	1363.5	1361.5	1371.5	1373.5
15°	1339.5	1343.5	1343.5	1351.5	1351.5
17.5°	1315.4	1319.4	1321.4	1327.4	1327.4
20°	1289.3	1293.3	1293.3	1303.4	1305.4
22.5°	1255.2	1261.2	1261.2	1277.3	1277.3
25°	1221.1	1227.2	1231.2	1247.2	1247.2
27.5°	1181.0	1187.1	1195.1	1211.1	1211.1
30°	1142.9	1145.0	1155.0	1167.0	1173.0
32.5°	1096.8	1102.8	1112.9	1130.9	1132.9
35°	1050.7	1056.7	1068.8	1086.8	1090.8
37.5°	1000.6	1006.6	1022.6	1044.7	1046.7
40°	948.4	954.5	974.5	996.6	994.6
42.5°	894.3	902.3	926.4	942.4	944.4
45°	836.2	850.2	874.3	888.3	886.3
47.5°	786.0	796.1	824.1	830.1	826.1
50°	723.9	741.9	768.0	772.0	770.0
52.5°	663.7	681.8	709.8	709.8	699.8
55°	607.6	629.6	651.7	647.7	635.6
57.5°	551.4	569.5	593.5	581.5	563.5
60°	491.3	513.3	533.4	513.3	503.3
62.5°	431.1	461.2	473.2	451.2	445.1
65°	383.0	403.0	407.0	399.0	395.0
67.5°	324.8	350.9	350.9	346.9	342.9
70°	272.7	294.8	296.8	298.8	298.8
72.5°	218.6	244.6	246.6	252.7	250.6
75°	170.4	192.5	202.5	204.5	204.5
77.5°	126.3	144.4	158.4	158.4	156.4
80°	88.2	104.3	114.3	114.3	112.3
82.5°	54.1	68.2	76.2	74.2	74.2
85°	30.1	38.1	40.1	38.1	38.1
87.5°	12.0	14.0	12.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)