

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: P220107

Luminaire Tested: **R3-WD-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-6L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4312.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

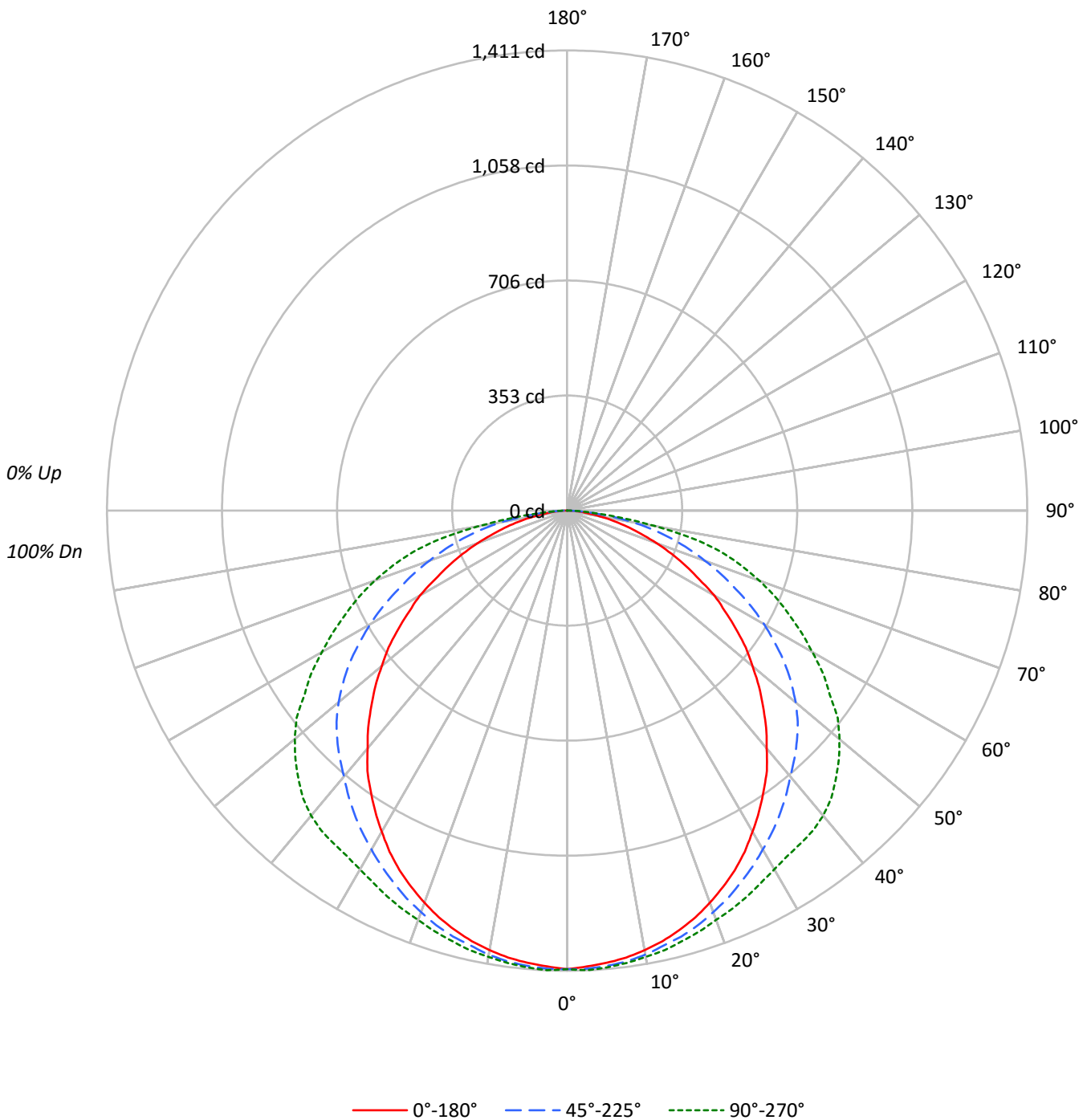
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3784	3784	3784
5°	3760	3786	3798
10°	3740	3778	3797
15°	3709	3767	3806
20°	3665	3752	3826
25°	3612	3737	3876
30°	3533	3729	3947
35°	3451	3735	4096
40°	3345	3739	4290
45°	3232	3793	4434
50°	3105	3830	4564
55°	2964	3820	4610
60°	2808	3752	4672
65°	2562	3635	4767
70°	2301	3534	4933
75°	1970	3430	5084
80°	1595	3191	4241
85°	1155	2022	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.1
10°-20°	381.3	8.8
20°-30°	581.1	13.5
30°-40°	715.8	16.6
40°-50°	773.5	17.9
50°-60°	723.8	16.8
60°-70°	569.1	13.2
70°-80°	350.9	8.1
80°-90°	83.8	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°	1095.5	25.4
0°-40°	1811.2	42.0
0°-60°	3308.5	76.7
0°-90°	4312.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1392	1397	1401	1404	1406	132
15°	1331	1338	1352	1364	1366	375
25°	1217	1228	1259	1294	1306	560
35°	1050	1072	1137	1212	1247	657
45°	849	889	997	1121	1165	655
55°	632	688	814	938	983	565
65°	402	456	571	692	749	399
75°	190	239	330	438	489	203
85°	37	52	66	82	80	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.1	1406.1	1406.1	1406.1	1406.1
2.5°	1399.1	1401.4	1406.1	1408.4	1410.8
5°	1392.0	1396.7	1401.4	1403.7	1406.1
7.5°	1382.7	1387.4	1394.4	1399.1	1399.1
10°	1368.6	1373.3	1382.7	1389.7	1389.7
12.5°	1352.3	1357.0	1366.3	1378.0	1380.3
15°	1331.2	1338.2	1352.3	1364.0	1366.3
17.5°	1307.8	1314.8	1333.6	1347.6	1352.3
20°	1279.7	1289.1	1310.2	1331.2	1335.9
22.5°	1249.3	1261.0	1286.8	1312.5	1321.9
25°	1216.6	1228.3	1258.7	1293.8	1305.5
27.5°	1179.1	1190.8	1230.6	1272.7	1286.8
30°	1137.0	1155.7	1200.2	1249.3	1270.4
32.5°	1094.9	1113.6	1169.8	1230.6	1256.4
35°	1050.5	1071.5	1137.0	1211.9	1247.0
37.5°	1006.0	1029.4	1101.9	1195.5	1237.6
40°	952.2	982.6	1064.5	1179.1	1221.3
42.5°	903.1	935.8	1031.8	1153.4	1197.9
45°	849.3	889.0	996.7	1120.7	1165.1
47.5°	797.8	837.6	959.2	1083.2	1130.0
50°	741.6	788.4	914.8	1041.1	1090.2
52.5°	690.2	737.0	865.6	992.0	1045.8
55°	631.7	687.8	814.2	938.2	982.6
57.5°	573.2	624.7	755.7	879.7	931.1
60°	521.7	568.5	697.2	818.9	868.0
62.5°	456.2	512.4	636.4	755.7	809.5
65°	402.4	456.2	570.9	692.5	748.7
67.5°	346.3	402.4	512.4	631.7	690.2
70°	292.4	343.9	449.2	568.5	627.0
72.5°	236.3	287.8	390.7	505.3	559.2
75°	189.5	238.6	329.9	437.5	489.0
77.5°	145.1	187.2	269.1	362.6	395.4
80°	102.9	138.0	205.9	257.4	273.7
82.5°	65.5	93.6	128.7	159.1	159.1
85°	37.4	51.5	65.5	81.9	79.5
87.5°	16.4	18.7	21.1	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)