

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: P220104

Luminaire Tested: **R3-WD-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220104
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-3L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932.2 lumens
Efficiency: N/A
Efficacy: 114.5 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

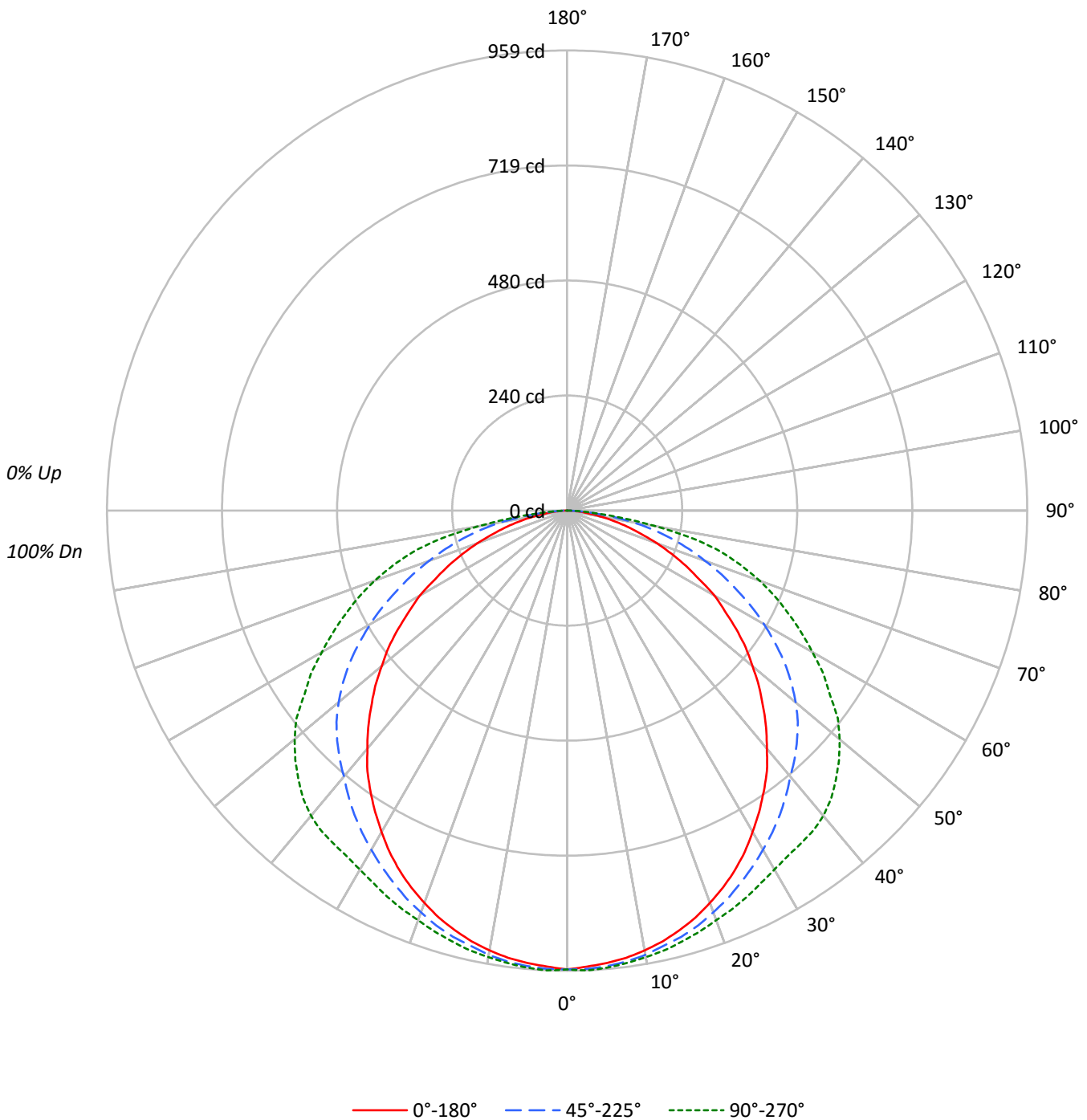
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2573	2573	2573
5°	2557	2574	2583
10°	2543	2569	2582
15°	2522	2562	2588
20°	2492	2551	2601
25°	2456	2541	2636
30°	2403	2536	2684
35°	2347	2540	2785
40°	2275	2543	2917
45°	2198	2579	3015
50°	2111	2604	3103
55°	2015	2597	3135
60°	1910	2552	3176
65°	1742	2472	3242
70°	1565	2403	3354
75°	1340	2332	3457
80°	1085	2170	2884
85°	787	1374	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.1
10°-20°	259.3	8.8
20°-30°	395.1	13.5
30°-40°	486.7	16.6
40°-50°	525.9	17.9
50°-60°	492.2	16.8
60°-70°	387.0	13.2
70°-80°	238.6	8.1
80°-90°	57.0	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°	744.9	25.4
0°-40°	1231.6	42.0
0°-60°	2249.7	76.7
0°-90°	2932.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	947	950	953	954	956	90
15°	905	910	920	928	929	255
25°	827	835	856	880	888	381
35°	714	729	773	824	848	447
45°	578	604	678	762	792	446
55°	430	468	554	638	668	384
65°	274	310	388	471	509	271
75°	129	162	224	298	332	138
85°	26	35	44	56	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.1	956.1	956.1	956.1	956.1
2.5°	951.3	952.9	956.1	957.7	959.3
5°	946.6	949.7	952.9	954.5	956.1
7.5°	940.2	943.4	948.1	951.3	951.3
10°	930.6	933.8	940.2	945.0	945.0
12.5°	919.5	922.7	929.1	937.0	938.6
15°	905.2	910.0	919.5	927.5	929.1
17.5°	889.3	894.1	906.8	916.3	919.5
20°	870.2	876.6	890.9	905.2	908.4
22.5°	849.5	857.5	875.0	892.5	898.8
25°	827.2	835.2	855.9	879.7	887.7
27.5°	801.8	809.7	836.8	865.4	875.0
30°	773.2	785.9	816.1	849.5	863.8
32.5°	744.5	757.2	795.4	836.8	854.3
35°	714.3	728.6	773.2	824.1	847.9
37.5°	684.1	700.0	749.3	812.9	841.6
40°	647.5	668.2	723.8	801.8	830.4
42.5°	614.1	636.3	701.6	784.3	814.5
45°	577.5	604.5	677.7	762.0	792.2
47.5°	542.5	569.5	652.2	736.6	768.4
50°	504.3	536.1	622.0	707.9	741.3
52.5°	469.3	501.1	588.6	674.5	711.1
55°	429.5	467.7	553.6	637.9	668.2
57.5°	389.8	424.8	513.8	598.2	633.2
60°	354.8	386.6	474.1	556.8	590.2
62.5°	310.2	348.4	432.7	513.8	550.4
65°	273.6	310.2	388.2	470.9	509.1
67.5°	235.4	273.6	348.4	429.5	469.3
70°	198.9	233.9	305.4	386.6	426.3
72.5°	160.7	195.7	265.7	343.6	380.2
75°	128.9	162.3	224.3	297.5	332.5
77.5°	98.6	127.3	182.9	246.6	268.9
80°	70.0	93.9	140.0	175.0	186.1
82.5°	44.5	63.6	87.5	108.2	108.2
85°	25.5	35.0	44.5	55.7	54.1
87.5°	11.1	12.7	14.3	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)