

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: P220102

Luminaire Tested: **R3-WD-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220102  
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-1L40-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: 1969.7 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

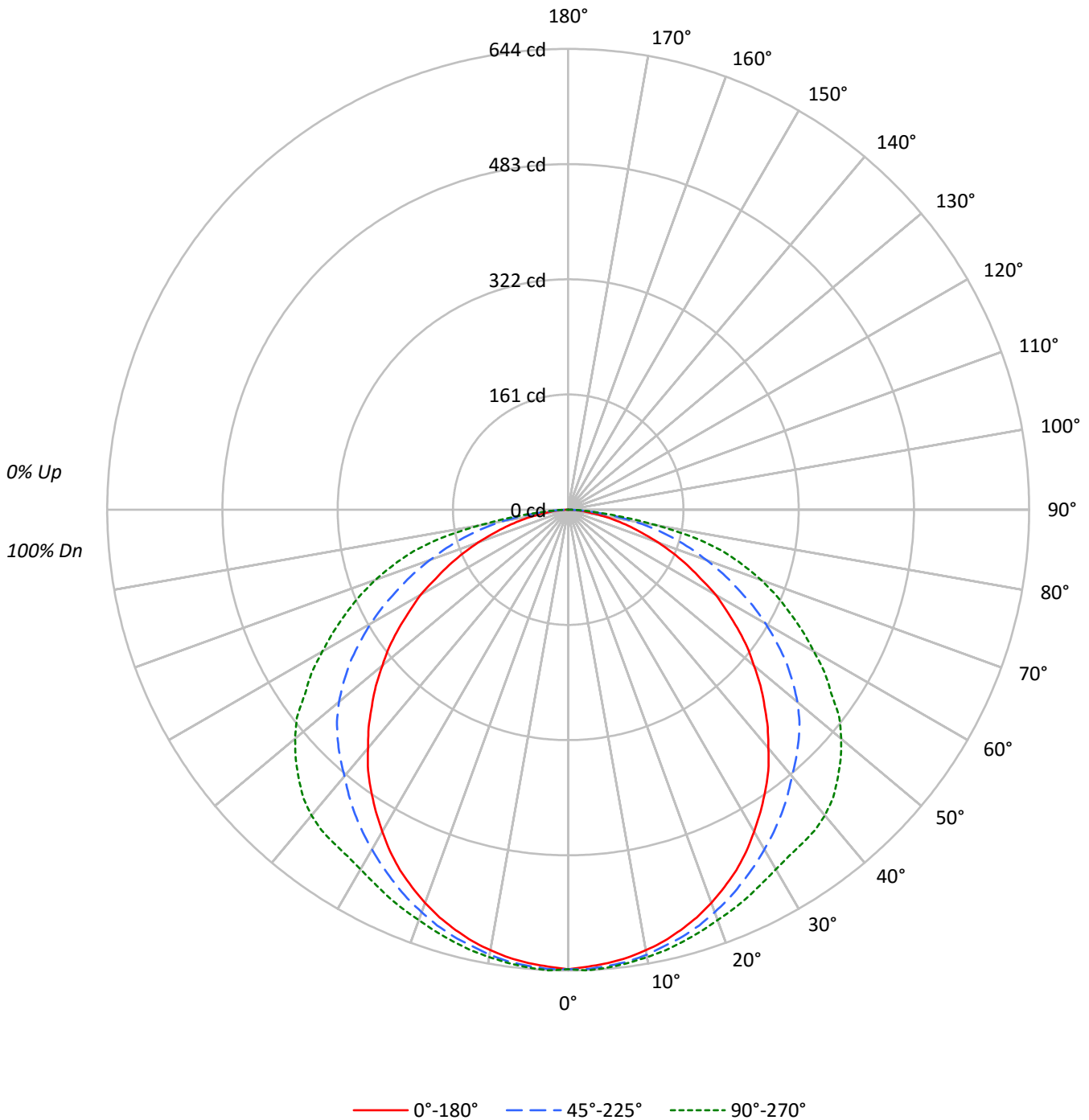
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220102

CATALOG NUMBER: R3-WD-1L40-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P220102

CATALOG NUMBER: R3-WD-1L40-LD5-UNV-22

**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°	1728	1728	1728
5°	1718	1729	1735
10°	1708	1726	1735
15°	1694	1721	1739
20°	1674	1714	1747
25°	1650	1707	1771
30°	1614	1703	1803
35°	1576	1706	1871
40°	1528	1708	1959
45°	1476	1733	2025
50°	1418	1750	2085
55°	1354	1745	2106
60°	1283	1714	2134
65°	1170	1661	2178
70°	1051	1614	2253
75°	900	1567	2323
80°	728	1457	1937
85°	528	923	1121



TEST NUMBER: P220102

CATALOG NUMBER: R3-WD-1L40-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.1
10°-20°	174.2	8.8
20°-30°	265.4	13.5
30°-40°	326.9	16.6
40°-50°	353.3	17.9
50°-60°	330.6	16.8
60°-70°	260.0	13.2
70°-80°	160.3	8.1
80°-90°	38.3	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°	500.4	25.4
0°-40°	827.3	42.0
0°-60°	1511.3	76.7
0°-90°	1969.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	636	638	640	641	642	60
15°	608	611	618	623	624	171
25°	556	561	575	591	596	256
35°	480	490	519	554	570	300
45°	388	406	455	512	532	299
55°	288	314	372	428	449	258
65°	184	208	261	316	342	182
75°	87	109	151	200	223	93
85°	17	24	30	37	36	21
90°	0	0	0	0	0	



TEST NUMBER: P220102

CATALOG NUMBER: R3-WD-1L40-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	642.3	642.3	642.3	642.3	642.3
2.5°	639.1	640.1	642.3	643.3	644.4
5°	635.9	638.0	640.1	641.2	642.3
7.5°	631.6	633.7	636.9	639.1	639.1
10°	625.2	627.3	631.6	634.8	634.8
12.5°	617.7	619.8	624.1	629.4	630.5
15°	608.1	611.3	617.7	623.0	624.1
17.5°	597.4	600.6	609.1	615.6	617.7
20°	584.6	588.8	598.5	608.1	610.2
22.5°	570.7	576.0	587.8	599.5	603.8
25°	555.7	561.1	574.9	591.0	596.3
27.5°	538.6	544.0	562.1	581.4	587.8
30°	519.4	527.9	548.2	570.7	580.3
32.5°	500.1	508.7	534.3	562.1	573.9
35°	479.8	489.5	519.4	553.6	569.6
37.5°	459.5	470.2	503.3	546.1	565.3
40°	434.9	448.8	486.2	538.6	557.8
42.5°	412.5	427.5	471.3	526.9	547.2
45°	387.9	406.1	455.3	511.9	532.2
47.5°	364.4	382.6	438.2	494.8	516.2
50°	338.8	360.1	417.9	475.6	498.0
52.5°	315.3	336.6	395.4	453.1	477.7
55°	288.5	314.2	371.9	428.5	448.8
57.5°	261.8	285.3	345.2	401.8	425.3
60°	238.3	259.7	318.5	374.0	396.5
62.5°	208.4	234.0	290.7	345.2	369.8
65°	183.8	208.4	260.8	316.3	342.0
67.5°	158.2	183.8	234.0	288.5	315.3
70°	133.6	157.1	205.2	259.7	286.4
72.5°	107.9	131.4	178.5	230.8	255.4
75°	86.6	109.0	150.7	199.8	223.4
77.5°	66.3	85.5	122.9	165.6	180.6
80°	47.0	63.1	94.0	117.6	125.0
82.5°	29.9	42.7	58.8	72.7	72.7
85°	17.1	23.5	29.9	37.4	36.3
87.5°	7.5	8.5	9.6	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)