

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: P219982

Luminaire Tested: **R3-WD-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219982
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-1L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.8 lumens
Efficiency: N/A
Efficacy: 122.8 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

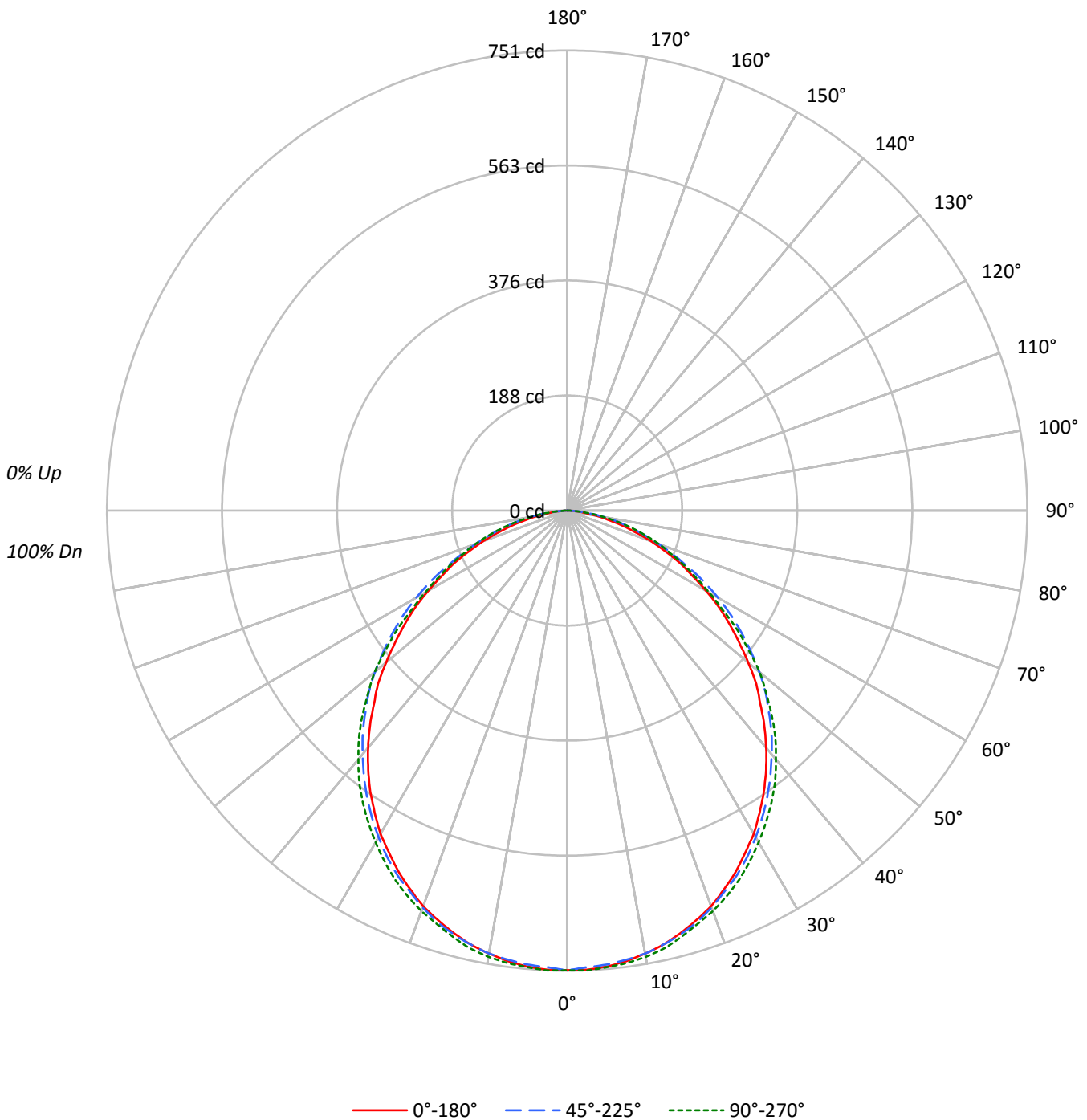
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2019	2019	2019
5°	2018	2009	2021
10°	2006	2006	2021
15°	1989	1995	2007
20°	1968	1974	1992
25°	1932	1948	1974
30°	1893	1913	1943
35°	1840	1871	1910
40°	1776	1825	1862
45°	1696	1773	1798
50°	1615	1714	1718
55°	1519	1629	1590
60°	1409	1530	1443
65°	1300	1381	1340
70°	1143	1245	1253
75°	944	1122	1133
80°	728	944	927
85°	494	661	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.7
10°-20°	202.3	10.4
20°-30°	302.7	15.6
30°-40°	356.7	18.4
40°-50°	356.9	18.4
50°-60°	303.1	15.6
60°-70°	211.6	10.9
70°-80°	111.4	5.7
80°-90°	25.1	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°	576.0	29.7
0°-40°	932.7	48.1
0°-60°	1592.7	82.1
0°-90°	1940.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	747	747	744	748	748	71
15°	714	716	716	720	720	201
25°	651	654	656	665	665	299
35°	560	563	570	579	581	350
45°	446	453	466	473	472	345
55°	324	336	347	345	339	289
65°	204	215	217	213	210	200
75°	91	103	108	109	109	98
85°	16	20	21	20	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.2	750.2	750.2	750.2	750.2
2.5°	750.2	749.1	745.9	750.2	751.3
5°	747.0	747.0	743.8	748.1	748.1
7.5°	741.7	742.7	739.5	744.9	744.9
10°	734.2	735.2	734.2	739.5	739.5
12.5°	725.6	726.7	725.6	731.0	732.0
15°	713.9	716.0	716.0	720.3	720.3
17.5°	701.0	703.2	704.3	707.5	707.5
20°	687.2	689.3	689.3	694.6	695.7
22.5°	669.0	672.2	672.2	680.7	680.7
25°	650.8	654.0	656.2	664.7	664.7
27.5°	629.4	632.7	636.9	645.5	645.5
30°	609.1	610.2	615.6	622.0	625.2
32.5°	584.6	587.8	593.1	602.7	603.8
35°	560.0	563.2	569.6	579.2	581.4
37.5°	533.3	536.5	545.0	556.8	557.8
40°	505.5	508.7	519.4	531.1	530.1
42.5°	476.6	480.9	493.7	502.3	503.3
45°	445.6	453.1	465.9	473.4	472.4
47.5°	418.9	424.3	439.2	442.4	440.3
50°	385.8	395.4	409.3	411.4	410.4
52.5°	353.7	363.3	378.3	378.3	373.0
55°	323.8	335.6	347.3	345.2	338.8
57.5°	293.9	303.5	316.3	309.9	300.3
60°	261.8	273.6	284.3	273.6	268.2
62.5°	229.8	245.8	252.2	240.5	237.2
65°	204.1	214.8	216.9	212.7	210.5
67.5°	173.1	187.0	187.0	184.9	182.7
70°	145.3	157.1	158.2	159.2	159.2
72.5°	116.5	130.4	131.4	134.7	133.6
75°	90.8	102.6	107.9	109.0	109.0
77.5°	67.3	76.9	84.4	84.4	83.4
80°	47.0	55.6	60.9	60.9	59.8
82.5°	28.9	36.3	40.6	39.5	39.5
85°	16.0	20.3	21.4	20.3	20.3
87.5°	6.4	7.5	6.4	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)