

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: P219996

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-1L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2065.4 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

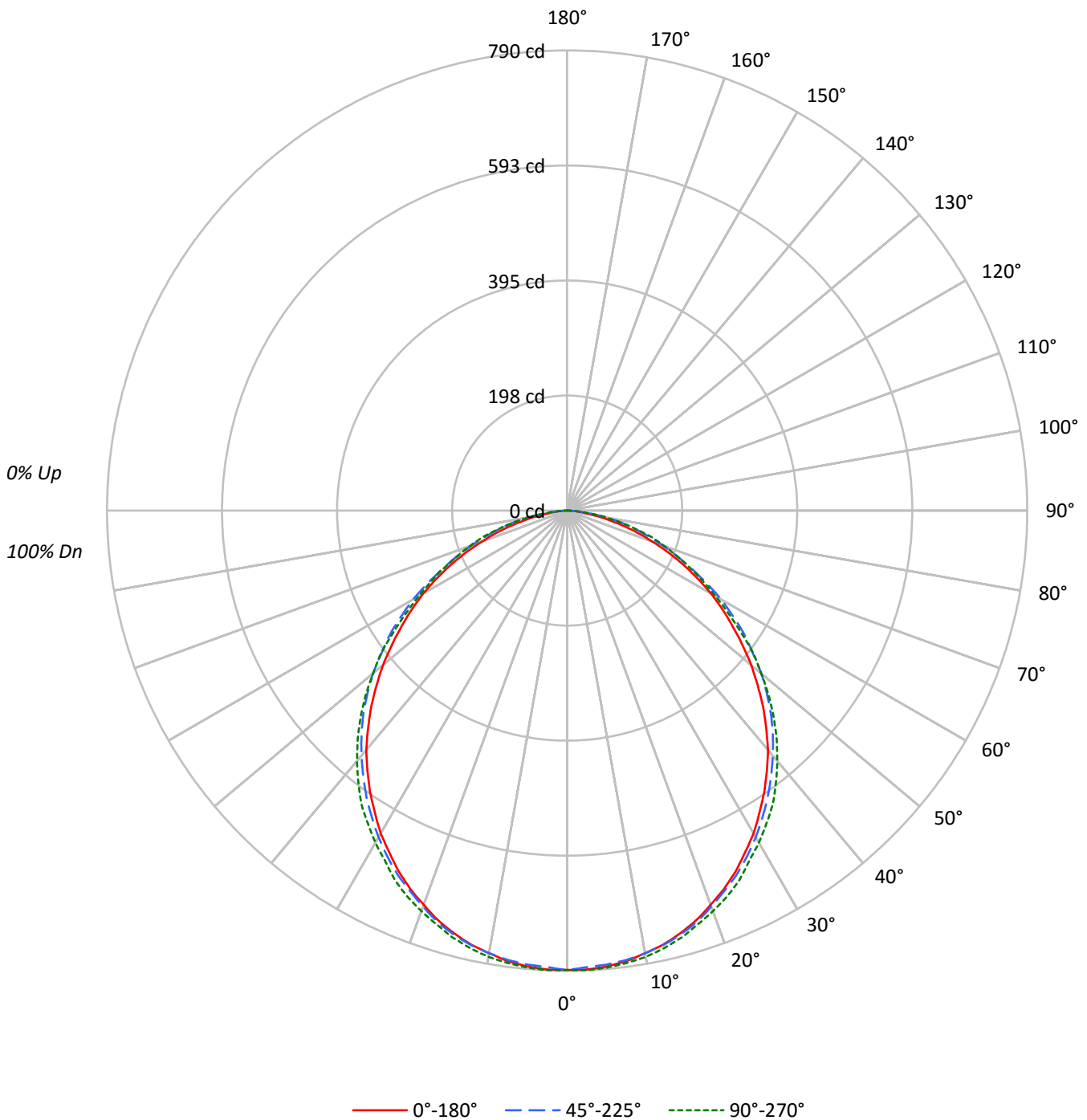
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2122	2122	2122
5°	2122	2113	2128
10°	2108	2108	2126
15°	2093	2099	2114
20°	2063	2072	2096
25°	2031	2047	2078
30°	1989	2012	2046
35°	1938	1973	2022
40°	1885	1930	1971
45°	1810	1883	1907
50°	1727	1821	1821
55°	1629	1745	1710
60°	1535	1645	1582
65°	1401	1497	1484
70°	1220	1371	1396
75°	1011	1245	1256
80°	745	1043	1043
85°	494	760	661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	3.6
10°-20°	212.7	10.3
20°-30°	318.2	15.4
30°-40°	376.1	18.2
40°-50°	378.7	18.3
50°-60°	324.6	15.7
60°-70°	230.2	11.1
70°-80°	122.8	5.9
80°-90°	27.5	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°	605.5	29.3
0°-40°	981.6	47.5
0°-60°	1685.0	81.6
0°-90°	2065.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	786	786	782	786	788	75
15°	751	752	753	758	759	212
25°	684	687	689	698	700	315
35°	590	591	601	611	616	369
45°	476	481	495	502	501	366
55°	347	357	372	370	364	311
65°	220	231	235	234	233	218
75°	97	110	120	124	121	105
85°	16	21	25	24	21	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	788.7	788.7	788.7	788.7	788.7
2.5°	788.7	787.6	784.4	789.7	789.7
5°	785.5	785.5	782.3	786.5	787.6
7.5°	780.1	780.1	778.0	783.3	783.3
10°	771.6	772.6	771.6	776.9	778.0
12.5°	763.0	764.1	764.1	768.4	769.4
15°	751.3	752.3	753.4	757.7	758.8
17.5°	737.4	739.5	740.6	744.9	744.9
20°	720.3	723.5	723.5	731.0	732.0
22.5°	703.2	705.3	706.4	714.9	717.1
25°	683.9	687.2	689.3	697.8	700.0
27.5°	661.5	664.7	669.0	678.6	677.5
30°	640.1	641.2	647.6	657.2	658.3
32.5°	614.5	617.7	624.1	634.8	636.9
35°	589.9	591.0	600.6	611.3	615.6
37.5°	563.2	566.4	574.9	586.7	588.8
40°	536.5	538.6	549.3	562.1	561.1
42.5°	505.5	509.8	522.6	532.2	532.2
45°	475.6	480.9	494.8	502.3	501.2
47.5°	443.5	451.0	464.9	471.3	469.1
50°	412.5	420.0	434.9	438.2	434.9
52.5°	379.4	389.0	401.8	402.9	402.9
55°	347.3	356.9	371.9	369.8	364.4
57.5°	316.3	325.9	337.7	333.4	328.1
60°	285.3	293.9	305.6	297.1	293.9
62.5°	252.2	264.0	269.3	265.0	262.9
65°	220.1	230.8	235.1	234.0	233.0
67.5°	188.1	200.9	203.0	204.1	204.1
70°	155.0	169.9	174.2	177.4	177.4
72.5°	127.2	140.0	145.3	150.7	151.8
75°	97.2	110.1	119.7	124.0	120.8
77.5°	72.7	82.3	95.1	94.0	94.0
80°	48.1	58.8	67.3	69.5	67.3
82.5°	29.9	39.5	43.8	43.8	42.7
85°	16.0	21.4	24.6	23.5	21.4
87.5°	6.4	7.5	7.5	5.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)