

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: P219968

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-1L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

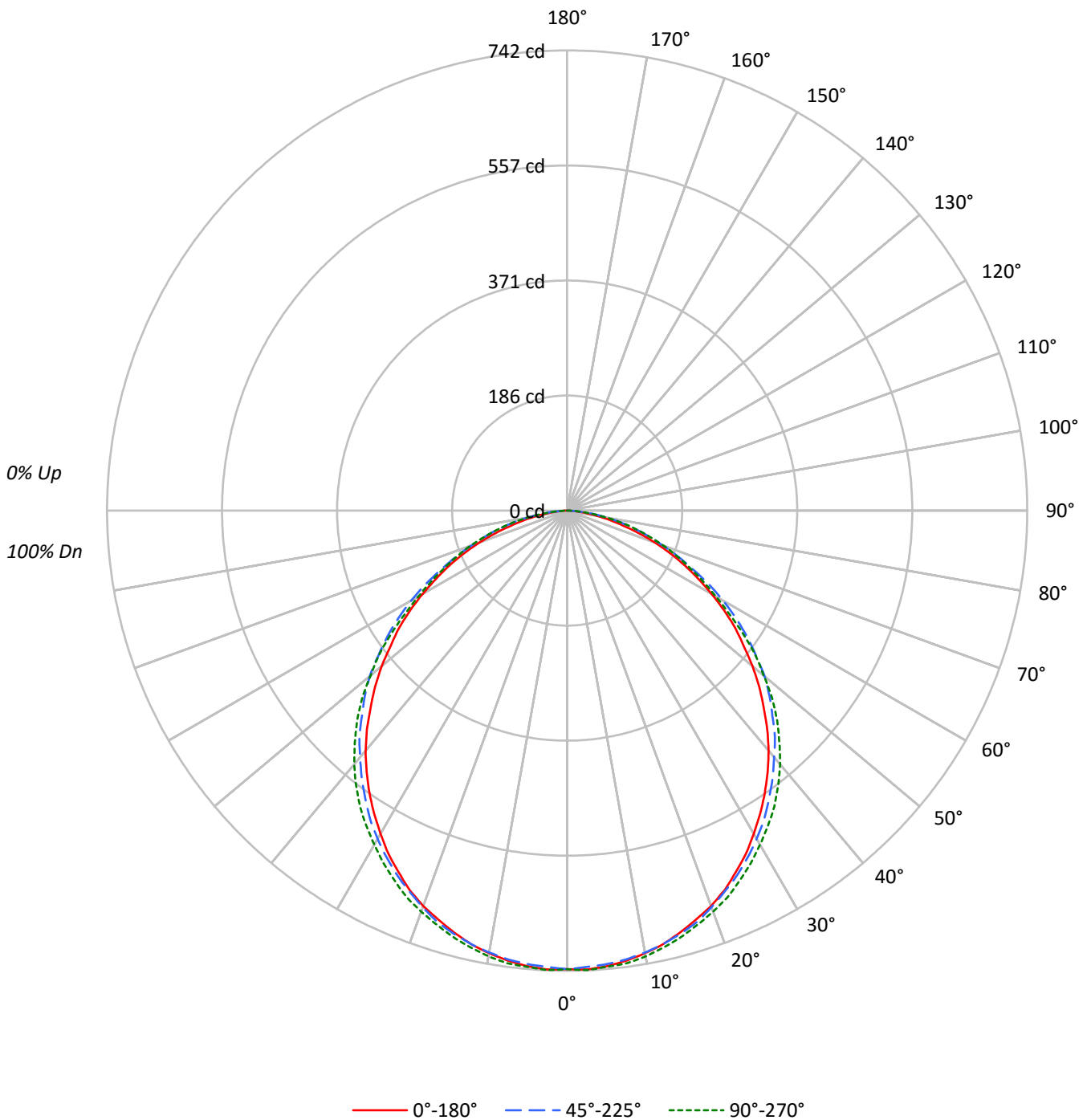
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	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	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1990	1990	1990
5°	1992	1983	1995
10°	1980	1977	1994
15°	1962	1968	1983
20°	1943	1949	1971
25°	1910	1926	1955
30°	1870	1899	1933
35°	1826	1864	1913
40°	1776	1825	1877
45°	1704	1781	1822
50°	1633	1740	1732
55°	1554	1659	1624
60°	1449	1565	1490
65°	1334	1422	1388
70°	1177	1286	1303
75°	967	1167	1178
80°	762	993	993
85°	528	726	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.6
10°-20°	199.7	10.2
20°-30°	299.7	15.3
30°-40°	355.5	18.2
40°-50°	359.3	18.4
50°-60°	308.9	15.8
60°-70°	218.0	11.2
70°-80°	116.2	5.9
80°-90°	26.3	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°	569.4	29.1
0°-40°	924.9	47.3
0°-60°	1593.2	81.5
0°-90°	1953.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	737	736	734	738	738	70
15°	704	706	706	712	712	199
25°	643	646	649	658	658	296
35°	556	560	568	579	582	347
45°	448	455	468	477	479	346
55°	331	341	354	353	346	295
65°	210	220	223	221	218	207
75°	93	106	112	116	113	101
85°	17	20	24	21	21	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.5	739.5	739.5	739.5	739.5
2.5°	740.6	739.5	736.3	740.6	741.7
5°	737.4	736.3	734.2	738.4	738.4
7.5°	732.0	732.0	729.9	735.2	736.3
10°	724.6	724.6	723.5	728.8	729.9
12.5°	716.0	717.1	716.0	721.4	721.4
15°	704.3	706.4	706.4	711.7	711.7
17.5°	691.4	693.6	695.7	700.0	700.0
20°	678.6	678.6	680.7	687.2	688.2
22.5°	662.6	663.6	664.7	673.3	675.4
25°	643.3	645.5	648.7	658.3	658.3
27.5°	624.1	627.3	630.5	640.1	641.2
30°	601.7	604.9	611.3	619.8	622.0
32.5°	579.2	582.4	591.0	599.5	602.7
35°	555.7	560.0	567.5	579.2	582.4
37.5°	531.1	534.3	544.0	556.8	558.9
40°	505.5	508.7	519.4	531.1	534.3
42.5°	477.7	482.0	495.9	506.5	506.5
45°	447.8	455.3	468.1	476.6	478.8
47.5°	420.0	425.3	442.4	449.9	448.8
50°	390.1	397.5	415.7	417.8	413.6
52.5°	359.1	368.7	383.7	385.8	382.6
55°	331.3	340.9	353.7	352.7	346.2
57.5°	300.3	311.0	322.7	316.3	309.9
60°	269.3	280.0	290.7	281.1	276.8
62.5°	238.3	250.1	257.5	247.9	246.9
65°	209.5	220.1	223.4	221.2	218.0
67.5°	179.5	191.3	193.4	192.4	191.3
70°	149.6	162.4	163.5	165.6	165.6
72.5°	120.8	133.6	137.9	141.1	138.9
75°	93.0	105.8	112.2	116.5	113.3
77.5°	70.5	80.2	88.7	88.7	88.7
80°	49.2	57.7	64.1	65.2	64.1
82.5°	31.0	37.4	42.7	40.6	40.6
85°	17.1	20.3	23.5	21.4	21.4
87.5°	6.4	7.5	6.4	5.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)