

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: P220068

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-1L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2123.9 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

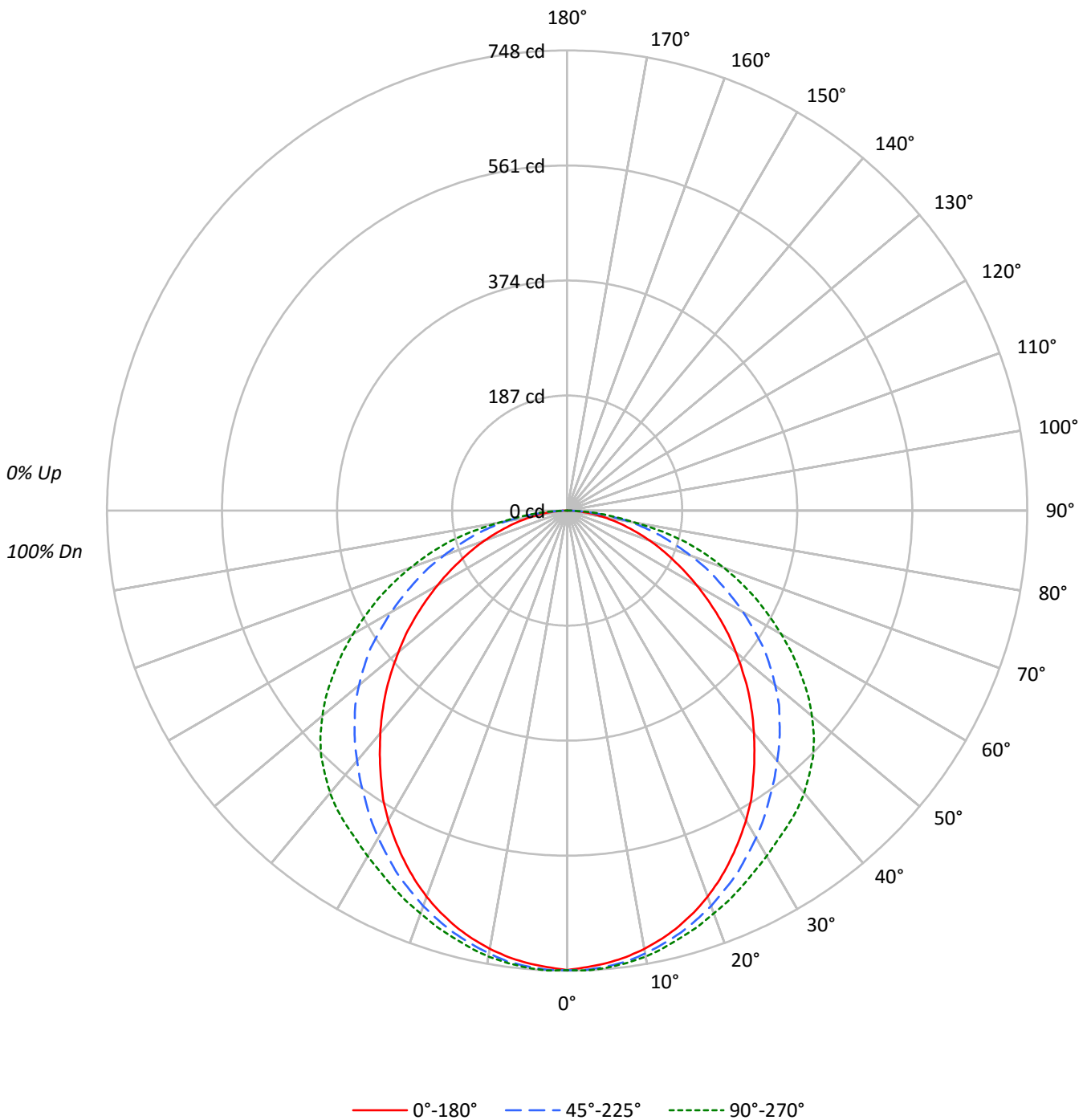
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2010	2010	2010
5°	1995	2009	2015
10°	1977	1997	2012
15°	1950	1980	2001
20°	1913	1958	1995
25°	1863	1936	1999
30°	1807	1909	2016
35°	1734	1882	2054
40°	1659	1866	2106
45°	1586	1859	2151
50°	1499	1848	2174
55°	1409	1830	2176
60°	1312	1777	2162
65°	1211	1728	2157
70°	1127	1674	2127
75°	1022	1633	2089
80°	911	1573	1739
85°	824	1254	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.3
10°-20°	200.3	9.4
20°-30°	300.0	14.1
30°-40°	360.1	17.0
40°-50°	377.4	17.8
50°-60°	343.8	16.2
60°-70°	265.4	12.5
70°-80°	161.1	7.6
80°-90°	45.2	2.1
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°	570.8	26.9
0°-40°	931.0	43.8
0°-60°	1652.2	77.8
0°-90°	2123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	738	741	744	746	746	70
15°	700	704	711	717	718	197
25°	627	635	652	667	673	289
35°	528	541	573	610	625	330
45°	417	435	488	544	565	321
55°	300	325	390	444	464	269
65°	190	217	271	320	339	190
75°	98	118	157	190	201	105
85°	27	32	41	47	49	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	742.7	743.8	747.0	748.1	748.1
5°	738.4	740.6	743.8	745.9	745.9
7.5°	732.0	734.2	739.5	741.7	741.7
10°	723.5	726.7	731.0	735.2	736.3
12.5°	712.8	716.0	721.4	726.7	727.8
15°	700.0	704.3	710.7	717.1	718.1
17.5°	685.0	689.3	697.8	706.4	708.5
20°	667.9	672.2	683.9	694.6	696.8
22.5°	648.7	655.1	667.9	681.8	686.1
25°	627.3	634.8	651.9	666.8	673.3
27.5°	604.9	613.4	632.7	653.0	660.4
30°	581.4	589.9	614.5	638.0	648.7
32.5°	556.8	565.3	594.2	624.1	635.9
35°	527.9	540.7	572.8	610.2	625.2
37.5°	500.1	515.1	552.5	596.3	613.4
40°	472.4	488.4	531.1	580.3	599.5
42.5°	444.6	461.7	510.8	564.3	582.4
45°	416.8	434.9	488.4	544.0	565.3
47.5°	386.9	407.2	467.0	521.5	544.0
50°	358.0	380.4	441.4	499.1	519.4
52.5°	330.2	351.6	415.7	473.4	493.7
55°	300.3	324.9	390.1	443.5	463.8
57.5°	271.4	297.1	359.1	414.6	433.9
60°	243.7	268.2	330.2	383.7	401.8
62.5°	216.9	242.6	300.3	351.6	369.8
65°	190.2	216.9	271.4	319.5	338.8
67.5°	166.7	190.2	243.7	288.5	304.6
70°	143.2	163.5	212.7	255.4	270.4
72.5°	119.7	140.0	183.8	222.3	236.2
75°	98.3	117.6	157.1	190.2	200.9
77.5°	78.0	95.1	129.3	156.0	159.2
80°	58.8	72.7	101.5	113.3	112.2
82.5°	42.7	52.4	68.4	76.9	76.9
85°	26.7	32.1	40.6	47.0	49.2
87.5°	11.8	13.9	17.1	18.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)