

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: P220097

Luminaire Tested: **R3-WD-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220097
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-2L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.1 lumens
Efficiency: N/A
Efficacy: 114.1 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

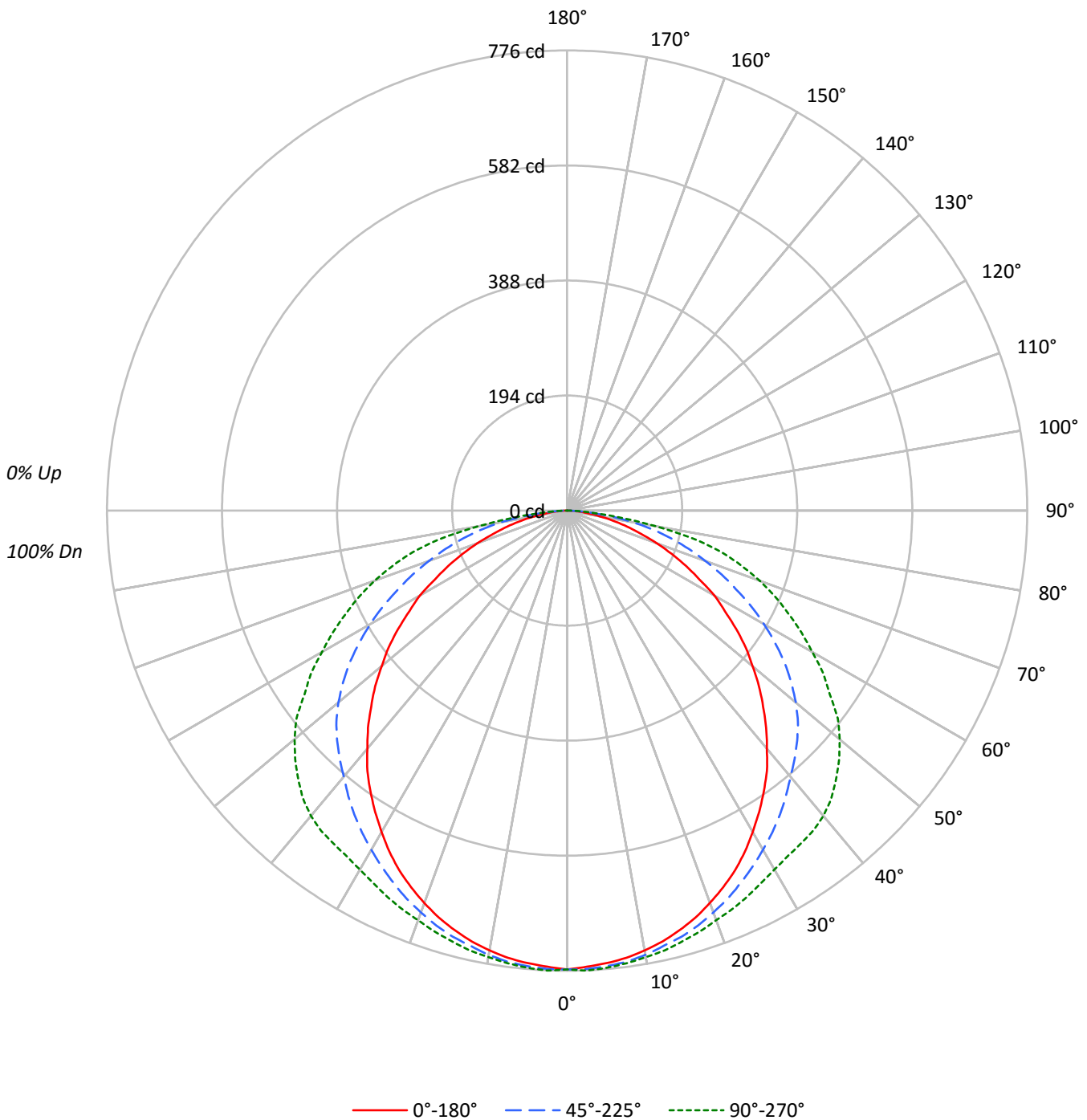
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2082	2082	2082
5°	2069	2083	2090
10°	2058	2079	2090
15°	2041	2073	2095
20°	2017	2065	2105
25°	1988	2057	2133
30°	1944	2052	2172
35°	1899	2055	2254
40°	1841	2058	2361
45°	1779	2087	2440
50°	1708	2107	2512
55°	1631	2102	2537
60°	1545	2065	2571
65°	1410	2000	2623
70°	1266	1945	2714
75°	1084	1887	2798
80°	877	1756	2334
85°	636	1112	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.1
10°-20°	209.8	8.8
20°-30°	319.8	13.5
30°-40°	393.9	16.6
40°-50°	425.6	17.9
50°-60°	398.3	16.8
60°-70°	313.2	13.2
70°-80°	193.1	8.1
80°-90°	46.1	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°	602.8	25.4
0°-40°	996.7	42.0
0°-60°	1820.7	76.7
0°-90°	2373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	766	769	771	772	774	73
15°	733	736	744	751	752	207
25°	670	676	693	712	718	308
35°	578	590	626	667	686	361
45°	467	489	548	617	641	361
55°	348	378	448	516	541	311
65°	221	251	314	381	412	219
75°	104	131	182	241	269	111
85°	21	28	36	45	44	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.8	773.8	773.8	773.8	773.8
2.5°	769.9	771.2	773.8	775.1	776.4
5°	766.1	768.6	771.2	772.5	773.8
7.5°	760.9	763.5	767.3	769.9	769.9
10°	753.2	755.8	760.9	764.8	764.8
12.5°	744.2	746.7	751.9	758.3	759.6
15°	732.6	736.4	744.2	750.6	751.9
17.5°	719.7	723.6	733.9	741.6	744.2
20°	704.3	709.4	721.0	732.6	735.2
22.5°	687.5	694.0	708.1	722.3	727.4
25°	669.5	675.9	692.7	712.0	718.4
27.5°	648.9	655.3	677.2	700.4	708.1
30°	625.7	636.0	660.5	687.5	699.1
32.5°	602.5	612.8	643.7	677.2	691.4
35°	578.1	589.7	625.7	666.9	686.2
37.5°	553.6	566.5	606.4	657.9	681.1
40°	524.0	540.7	585.8	648.9	672.1
42.5°	497.0	515.0	567.8	634.7	659.2
45°	467.4	489.2	548.5	616.7	641.2
47.5°	439.0	460.9	527.9	596.1	621.9
50°	408.1	433.9	503.4	572.9	600.0
52.5°	379.8	405.6	476.4	545.9	575.5
55°	347.6	378.5	448.0	516.3	540.7
57.5°	315.4	343.8	415.9	484.1	512.4
60°	287.1	312.9	383.7	450.6	477.7
62.5°	251.1	282.0	350.2	415.9	445.5
65°	221.4	251.1	314.1	381.1	412.0
67.5°	190.5	221.4	282.0	347.6	379.8
70°	160.9	189.3	247.2	312.9	345.0
72.5°	130.0	158.4	215.0	278.1	307.7
75°	104.3	131.3	181.5	240.8	269.1
77.5°	79.8	103.0	148.1	199.6	217.6
80°	56.6	76.0	113.3	141.6	150.6
82.5°	36.0	51.5	70.8	87.5	87.5
85°	20.6	28.3	36.0	45.1	43.8
87.5°	9.0	10.3	11.6	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)