

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: P220063

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220063
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-2L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2558.7 lumens
Efficiency: N/A
Efficacy: 123.0 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

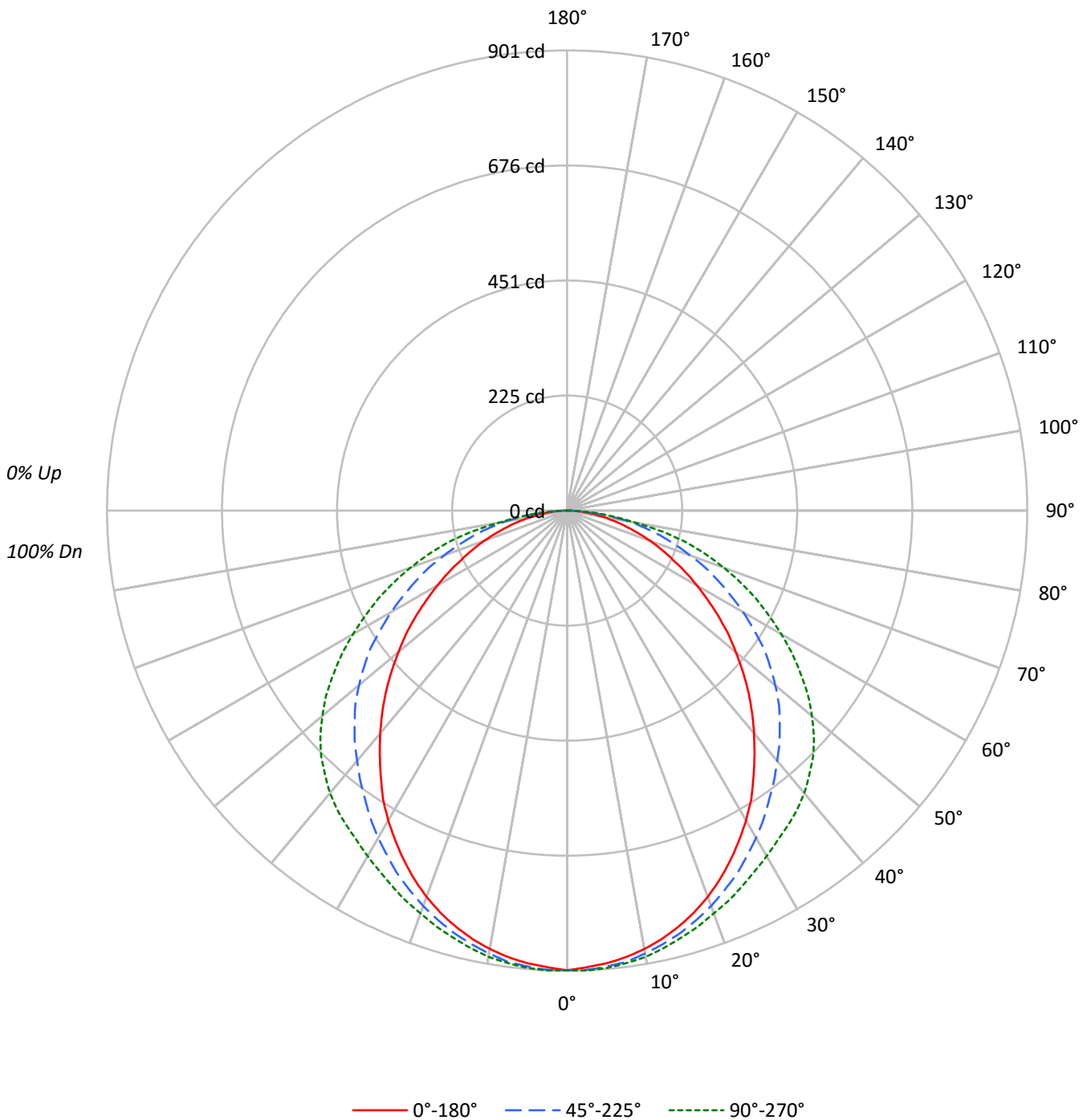
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2422	2422	2422
5°	2403	2421	2428
10°	2382	2406	2424
15°	2349	2385	2410
20°	2304	2360	2404
25°	2244	2332	2408
30°	2176	2300	2428
35°	2089	2267	2474
40°	1999	2248	2537
45°	1911	2239	2592
50°	1806	2226	2619
55°	1697	2205	2622
60°	1580	2141	2605
65°	1459	2082	2599
70°	1357	2016	2563
75°	1231	1968	2516
80°	1097	1895	2095
85°	994	1510	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.3
10°-20°	241.3	9.4
20°-30°	361.4	14.1
30°-40°	433.9	17.0
40°-50°	454.7	17.8
50°-60°	414.2	16.2
60°-70°	319.8	12.5
70°-80°	194.1	7.6
80°-90°	54.4	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°	687.7	26.9
0°-40°	1121.6	43.8
0°-60°	1990.5	77.8
0°-90°	2558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	890	892	896	899	899	84
15°	843	848	856	864	865	238
25°	756	765	785	803	811	348
35°	636	652	690	735	753	398
45°	502	524	588	655	681	387
55°	362	391	470	534	559	324
65°	229	261	327	385	408	229
75°	118	142	189	229	242	126
85°	32	39	49	57	59	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.0	900.0	900.0	900.0	900.0
2.5°	894.8	896.1	900.0	901.2	901.2
5°	889.7	892.2	896.1	898.7	898.7
7.5°	881.9	884.5	890.9	893.5	893.5
10°	871.6	875.5	880.6	885.8	887.1
12.5°	858.8	862.6	869.1	875.5	876.8
15°	843.3	848.5	856.2	863.9	865.2
17.5°	825.3	830.4	840.7	851.0	853.6
20°	804.7	809.8	824.0	836.9	839.4
22.5°	781.5	789.2	804.7	821.4	826.6
25°	755.8	764.8	785.4	803.4	811.1
27.5°	728.7	739.0	762.2	786.7	795.7
30°	700.4	710.7	740.3	768.6	781.5
32.5°	670.8	681.1	715.8	751.9	766.1
35°	636.0	651.5	690.1	735.2	753.2
37.5°	602.5	620.6	665.6	718.4	739.0
40°	569.1	588.4	639.9	699.1	722.3
42.5°	535.6	556.2	615.4	679.8	701.7
45°	502.1	524.0	588.4	655.3	681.1
47.5°	466.1	490.5	562.6	628.3	655.3
50°	431.3	458.3	531.7	601.3	625.7
52.5°	397.8	423.6	500.8	570.4	594.8
55°	361.8	391.4	469.9	534.3	558.8
57.5°	327.0	357.9	432.6	499.5	522.7
60°	293.5	323.2	397.8	462.2	484.1
62.5°	261.4	292.3	361.8	423.6	445.5
65°	229.2	261.4	327.0	385.0	408.1
67.5°	200.8	229.2	293.5	347.6	366.9
70°	172.5	197.0	256.2	307.7	325.7
72.5°	144.2	168.7	221.4	267.8	284.5
75°	118.4	141.6	189.3	229.2	242.0
77.5°	94.0	114.6	155.8	188.0	191.8
80°	70.8	87.5	122.3	136.5	135.2
82.5°	51.5	63.1	82.4	92.7	92.7
85°	32.2	38.6	48.9	56.6	59.2
87.5°	14.2	16.7	20.6	21.9	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)