

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: P220065

Luminaire Tested: **R3-WL-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220065  
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-4L35-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: 3543.8 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

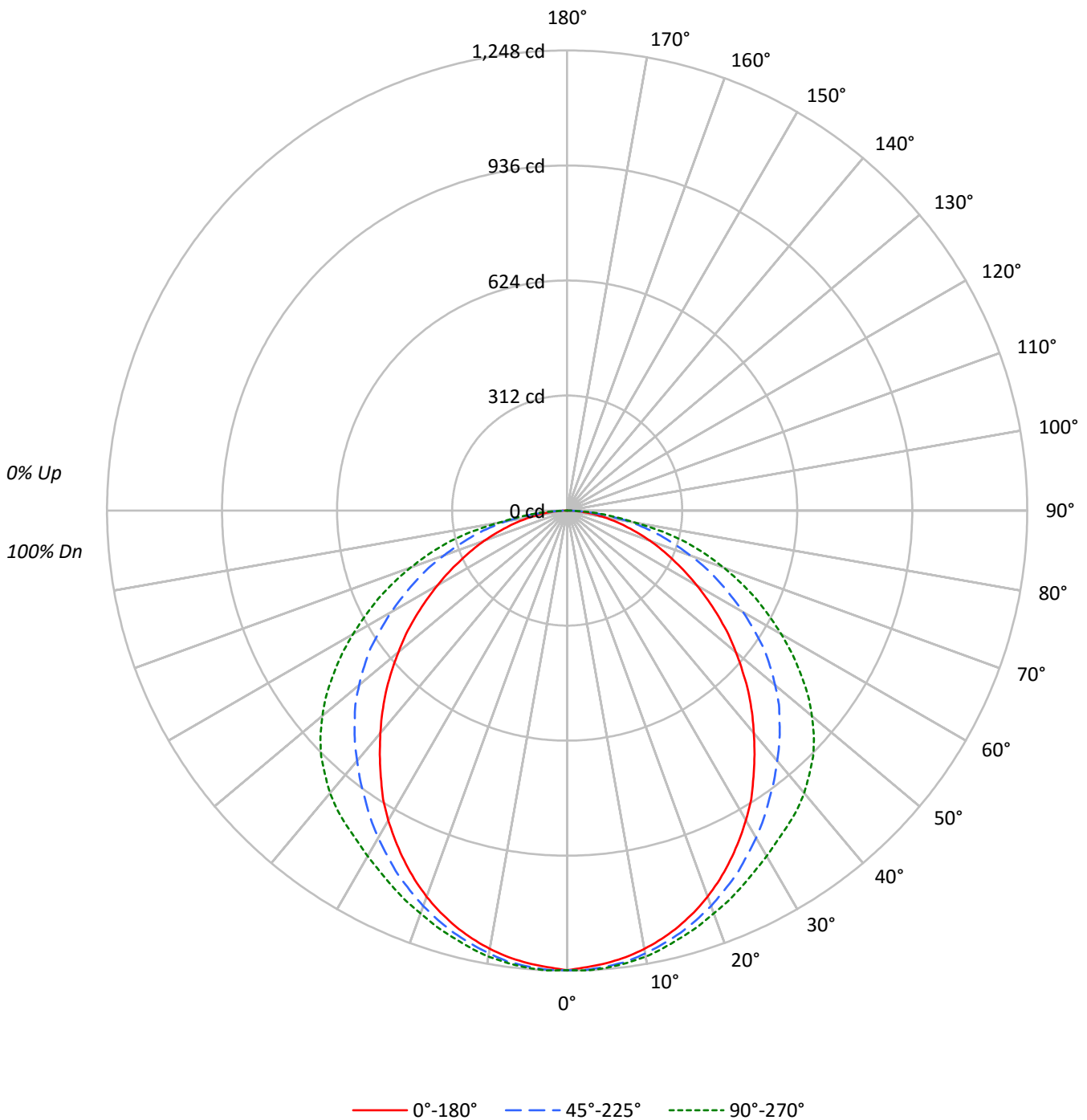
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3354	3354	3354
5°	3328	3352	3362
10°	3299	3333	3357
15°	3254	3304	3338
20°	3191	3268	3329
25°	3108	3230	3336
30°	3014	3186	3363
35°	2894	3140	3427
40°	2768	3113	3514
45°	2646	3101	3590
50°	2501	3083	3628
55°	2351	3053	3631
60°	2188	2965	3608
65°	2021	2884	3599
70°	1880	2792	3549
75°	1705	2725	3485
80°	1520	2625	2901
85°	1377	2093	2532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	3.3
10°-20°	334.2	9.4
20°-30°	500.6	14.1
30°-40°	600.9	17.0
40°-50°	629.7	17.8
50°-60°	573.6	16.2
60°-70°	442.8	12.5
70°-80°	268.8	7.6
80°-90°	75.4	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°	952.5	26.9
0°-40°	1553.4	43.8
0°-60°	2756.7	77.8
0°-90°	3543.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1232	1236	1241	1245	1245	117
15°	1168	1175	1186	1196	1198	329
25°	1047	1059	1088	1113	1123	482
35°	881	902	956	1018	1043	551
45°	695	726	815	908	943	535
55°	501	542	651	740	774	448
65°	317	362	453	533	565	317
75°	164	196	262	317	335	175
85°	45	54	68	78	82	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1239.3	1241.0	1246.4	1248.2	1248.2
5°	1232.1	1235.7	1241.0	1244.6	1244.6
7.5°	1221.4	1225.0	1233.9	1237.5	1237.5
10°	1207.2	1212.5	1219.6	1226.8	1228.6
12.5°	1189.3	1194.7	1203.6	1212.5	1214.3
15°	1167.9	1175.1	1185.8	1196.5	1198.2
17.5°	1143.0	1150.1	1164.4	1178.6	1182.2
20°	1114.4	1121.6	1141.2	1159.0	1162.6
22.5°	1082.3	1093.0	1114.4	1137.6	1144.8
25°	1046.7	1059.2	1087.7	1112.7	1123.4
27.5°	1009.2	1023.5	1055.6	1089.5	1102.0
30°	970.0	984.3	1025.3	1064.5	1082.3
32.5°	929.0	943.3	991.4	1041.3	1060.9
35°	880.9	902.2	955.7	1018.2	1043.1
37.5°	834.5	859.5	921.9	995.0	1023.5
40°	788.1	814.9	886.2	968.2	1000.3
42.5°	741.8	770.3	852.3	941.5	971.8
45°	695.4	725.7	814.9	907.6	943.3
47.5°	645.5	679.4	779.2	870.2	907.6
50°	597.3	634.8	736.4	832.7	866.6
52.5°	551.0	586.6	693.6	789.9	823.8
55°	501.1	542.1	650.8	740.0	773.9
57.5°	452.9	495.7	599.1	691.8	723.9
60°	406.5	447.6	551.0	640.1	670.4
62.5°	362.0	404.8	501.1	586.6	617.0
65°	317.4	362.0	452.9	533.1	565.2
67.5°	278.2	317.4	406.5	481.4	508.2
70°	238.9	272.8	354.8	426.2	451.1
72.5°	199.7	233.6	306.7	370.9	394.1
75°	164.0	196.1	262.1	317.4	335.2
77.5°	130.2	158.7	215.8	260.3	265.7
80°	98.1	121.3	169.4	189.0	187.2
82.5°	71.3	87.4	114.1	128.4	128.4
85°	44.6	53.5	67.8	78.5	82.0
87.5°	19.6	23.2	28.5	30.3	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)