

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: P220067

Luminaire Tested: **R3-WL-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220067  
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-6L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4507.1 lumens  
Efficiency: N/A  
Efficacy: 113.0 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

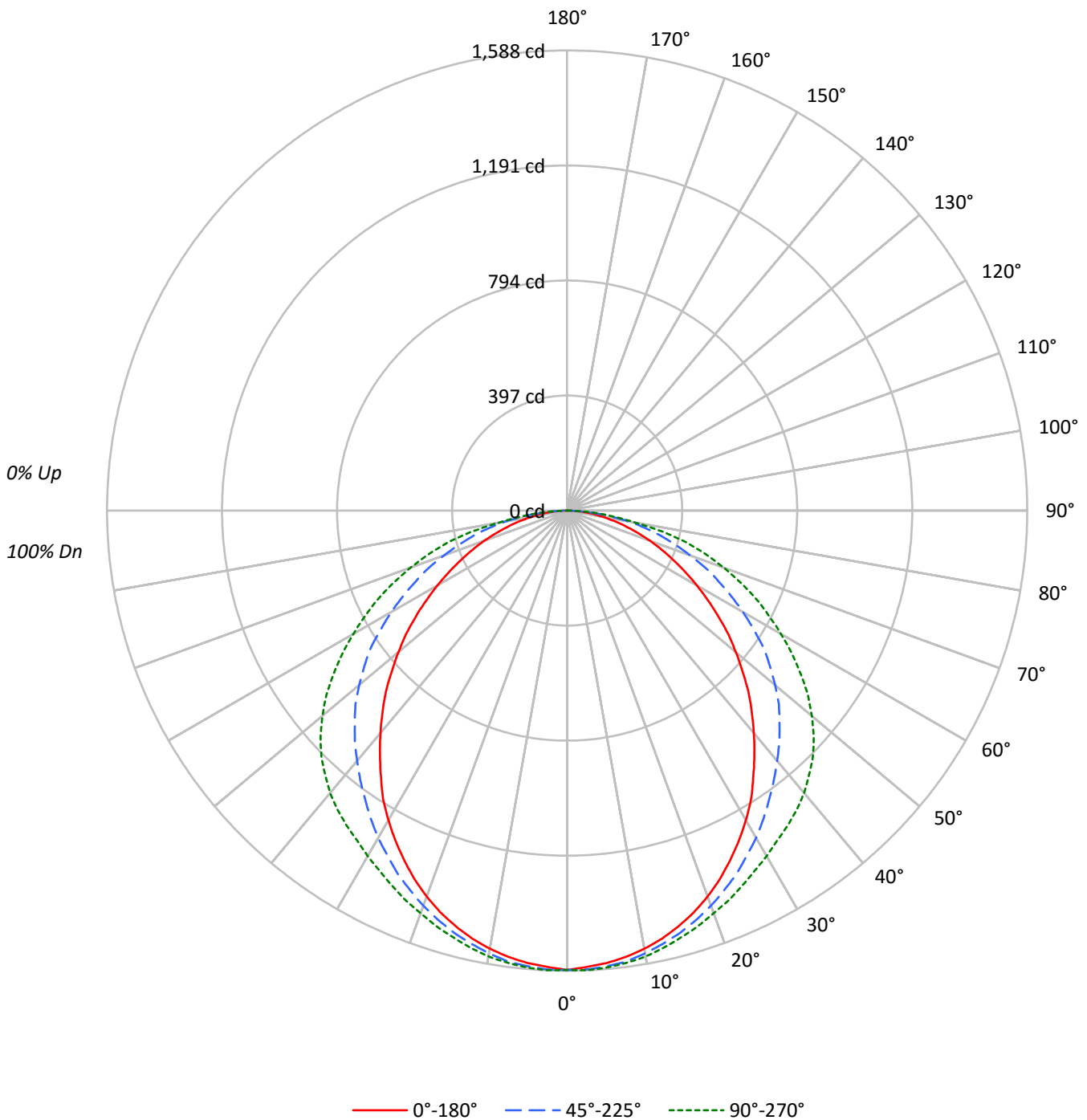
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4266	4266	4266
5°	4233	4264	4276
10°	4195	4239	4270
15°	4138	4201	4246
20°	4059	4156	4234
25°	3953	4108	4242
30°	3833	4052	4277
35°	3680	3993	4358
40°	3521	3959	4469
45°	3366	3944	4566
50°	3180	3921	4614
55°	2990	3884	4617
60°	2783	3772	4589
65°	2571	3668	4578
70°	2391	3551	4515
75°	2169	3466	4433
80°	1932	3338	3690
85°	1751	2661	3220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.7	3.3
10°-20°	425.0	9.4
20°-30°	636.6	14.1
30°-40°	764.2	17.0
40°-50°	800.8	17.8
50°-60°	729.6	16.2
60°-70°	563.2	12.5
70°-80°	341.9	7.6
80°-90°	95.9	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°	1211.4	26.9
0°-40°	1975.6	43.8
0°-60°	3506.1	77.8
0°-90°	4507.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4507.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1567	1572	1578	1583	1583	149
15°	1485	1494	1508	1522	1524	418
25°	1331	1347	1383	1415	1429	613
35°	1120	1148	1216	1295	1327	701
45°	884	923	1036	1154	1200	681
55°	637	689	828	941	984	570
65°	404	460	576	678	719	403
75°	209	250	333	404	426	222
85°	57	68	86	100	104	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1585.2	1585.2	1585.2	1585.2	1585.2
2.5°	1576.1	1578.4	1585.2	1587.5	1587.5
5°	1567.1	1571.6	1578.4	1582.9	1582.9
7.5°	1553.5	1558.0	1569.3	1573.9	1573.9
10°	1535.3	1542.1	1551.2	1560.3	1562.5
12.5°	1512.6	1519.4	1530.8	1542.1	1544.4
15°	1485.4	1494.5	1508.1	1521.7	1524.0
17.5°	1453.7	1462.7	1480.9	1499.0	1503.6
20°	1417.4	1426.5	1451.4	1474.1	1478.6
22.5°	1376.6	1390.2	1417.4	1446.9	1455.9
25°	1331.2	1347.1	1383.4	1415.1	1428.7
27.5°	1283.6	1301.7	1342.6	1385.6	1401.5
30°	1233.7	1251.8	1304.0	1353.9	1376.6
32.5°	1181.5	1199.7	1260.9	1324.4	1349.4
35°	1120.3	1147.5	1215.6	1294.9	1326.7
37.5°	1061.3	1093.1	1172.5	1265.4	1301.7
40°	1002.4	1036.4	1127.1	1231.4	1272.3
42.5°	943.4	979.7	1084.0	1197.4	1236.0
45°	884.5	923.0	1036.4	1154.3	1199.7
47.5°	821.0	864.0	991.0	1106.7	1154.3
50°	759.7	807.3	936.6	1059.1	1102.2
52.5°	700.8	746.1	882.2	1004.6	1047.7
55°	637.3	689.4	827.8	941.1	984.2
57.5°	576.0	630.5	762.0	879.9	920.7
60°	517.1	569.2	700.8	814.2	852.7
62.5°	460.4	514.8	637.3	746.1	784.7
65°	403.7	460.4	576.0	678.1	718.9
67.5°	353.8	403.7	517.1	612.3	646.3
70°	303.9	347.0	451.3	542.0	573.8
72.5°	254.0	297.1	390.1	471.7	501.2
75°	208.6	249.5	333.4	403.7	426.4
77.5°	165.6	201.8	274.4	331.1	337.9
80°	124.7	154.2	215.4	240.4	238.1
82.5°	90.7	111.1	145.1	163.3	163.3
85°	56.7	68.0	86.2	99.8	104.3
87.5°	24.9	29.5	36.3	38.6	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)