

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: P220197

Luminaire Tested: **R3-WL-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-1L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3083.0 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

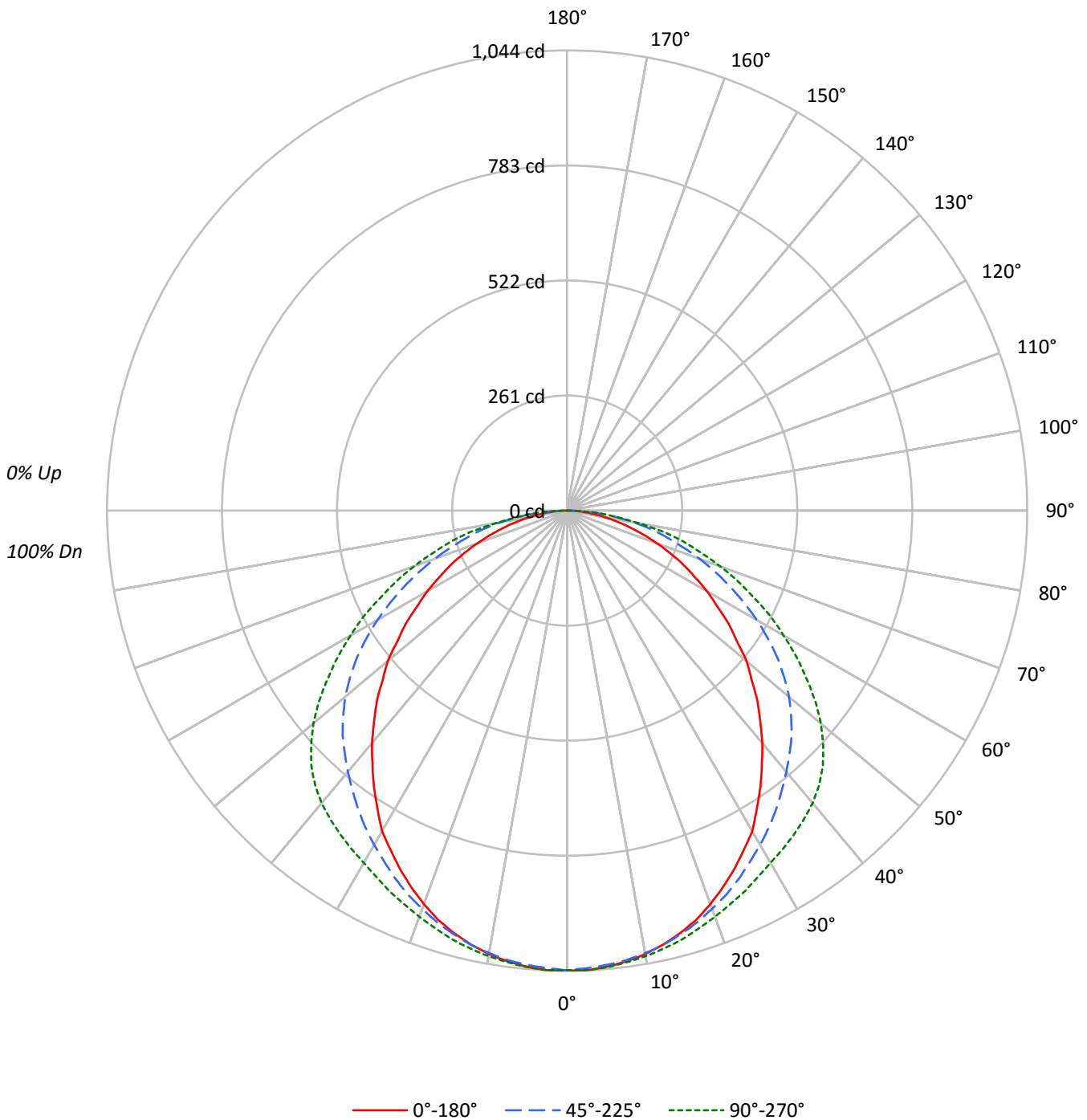
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1403	1403	1403
5°	1403	1398	1405
10°	1396	1393	1403
15°	1382	1386	1403
20°	1360	1376	1404
25°	1332	1368	1415
30°	1305	1360	1433
35°	1256	1358	1473
40°	1210	1359	1522
45°	1161	1371	1561
50°	1113	1376	1572
55°	1049	1367	1554
60°	986	1337	1527
65°	926	1296	1488
70°	851	1257	1453
75°	769	1215	1422
80°	672	1194	1273
85°	584	1071	1181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.2
10°-20°	281.6	9.1
20°-30°	425.9	13.8
30°-40°	519.5	16.8
40°-50°	552.9	17.9
50°-60°	506.8	16.4
60°-70°	389.5	12.6
70°-80°	236.0	7.7
80°-90°	72.2	2.3
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°	806.1	26.1
0°-40°	1325.6	43.0
0°-60°	2385.3	77.4
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1039	1038	1035	1040	1040	99
15°	992	993	995	1004	1007	280
25°	897	904	922	944	953	413
35°	764	783	827	878	897	478
45°	610	639	720	797	820	470
55°	447	486	583	646	662	399
65°	291	328	407	456	467	287
75°	148	181	234	268	274	158
85°	38	56	69	78	76	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1043.0	1043.0	1043.0	1043.0	1043.0
2.5°	1044.0	1042.0	1038.9	1043.0	1043.0
5°	1038.9	1037.9	1034.8	1039.9	1039.9
7.5°	1031.7	1030.7	1028.7	1034.8	1033.8
10°	1021.5	1020.5	1019.5	1026.6	1026.6
12.5°	1008.3	1008.3	1009.3	1016.4	1017.5
15°	991.9	993.0	995.0	1004.2	1007.3
17.5°	973.6	974.6	979.7	991.9	994.0
20°	950.1	953.2	961.3	977.7	980.7
22.5°	924.6	929.7	943.0	961.3	966.4
25°	897.0	904.2	921.5	944.0	953.2
27.5°	867.4	875.6	898.1	926.6	936.8
30°	839.9	848.1	875.6	911.3	922.6
32.5°	801.1	815.4	852.1	894.0	910.3
35°	764.4	782.7	826.6	877.6	897.0
37.5°	725.6	749.1	800.1	862.3	882.8
40°	688.9	713.3	773.6	843.0	866.4
42.5°	648.0	676.6	747.0	821.5	846.0
45°	610.3	638.8	720.5	797.0	820.5
47.5°	567.4	601.1	688.9	768.5	787.8
50°	531.7	563.3	657.2	730.7	751.1
52.5°	484.7	526.6	620.5	689.9	709.3
55°	447.0	485.8	582.7	646.0	662.3
57.5°	403.1	450.1	539.9	602.1	616.4
60°	366.4	407.2	497.0	554.1	567.4
62.5°	326.6	370.4	452.1	505.2	520.5
65°	290.8	327.6	407.2	456.2	467.4
67.5°	253.1	290.8	363.3	408.2	419.4
70°	216.4	256.2	319.4	360.2	369.4
72.5°	180.6	215.3	274.5	314.3	319.4
75°	148.0	180.6	233.7	268.4	273.5
77.5°	117.4	147.0	194.9	222.5	224.5
80°	86.7	115.3	154.1	168.4	164.3
82.5°	61.2	83.7	112.3	115.3	113.3
85°	37.8	56.1	69.4	77.6	76.5
87.5°	16.3	25.5	35.7	33.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)