

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: P220227

Luminaire Tested: **R3-WD-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-3L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4764.9 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

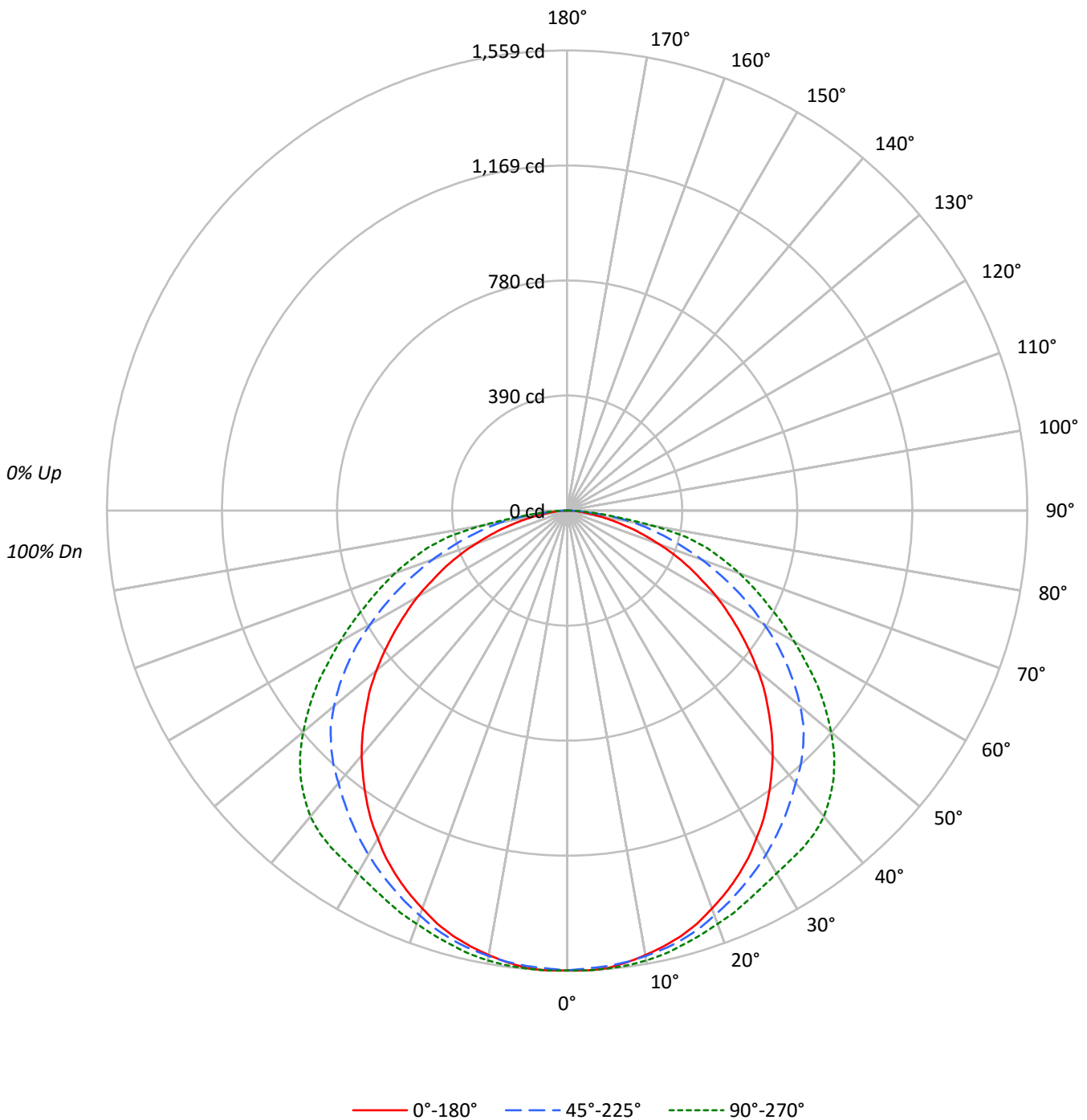
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91	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	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2096	2096	2096
5°	2102	2092	2104
10°	2089	2094	2114
15°	2078	2097	2120
20°	2054	2090	2134
25°	2029	2087	2160
30°	1993	2092	2205
35°	1952	2101	2290
40°	1903	2116	2377
45°	1837	2152	2431
50°	1766	2158	2444
55°	1671	2130	2431
60°	1576	2071	2393
65°	1456	1999	2380
70°	1295	1905	2443
75°	1097	1807	2544
80°	863	1752	2275
85°	625	1172	1303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.8	3.1
10°-20°	425.4	8.9
20°-30°	650.6	13.7
30°-40°	804.6	16.9
40°-50°	866.4	18.2
50°-60°	795.3	16.7
60°-70°	610.5	12.8
70°-80°	371.6	7.8
80°-90°	92.7	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°	1223.8	25.7
0°-40°	2028.4	42.6
0°-60°	3690.1	77.4
0°-90°	4764.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4764.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1556	1553	1549	1556	1558	148
15°	1492	1495	1505	1520	1522	420
25°	1367	1382	1406	1445	1455	629
35°	1188	1210	1279	1360	1394	743
45°	965	1006	1131	1240	1278	745
55°	712	770	908	1006	1036	638
65°	457	518	628	717	748	452
75°	211	265	348	449	489	227
85°	40	64	76	79	84	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1559.4	1557.7	1552.6	1557.7	1559.4
5°	1556.0	1552.6	1549.2	1556.0	1557.7
7.5°	1544.2	1544.2	1542.5	1552.6	1554.3
10°	1529.0	1532.4	1532.4	1545.9	1547.5
12.5°	1512.1	1515.5	1520.5	1535.7	1537.4
15°	1491.9	1495.2	1505.4	1520.5	1522.2
17.5°	1466.5	1473.3	1485.1	1502.0	1507.0
20°	1434.5	1446.3	1459.8	1485.1	1490.2
22.5°	1402.4	1415.9	1434.5	1463.2	1475.0
25°	1367.0	1382.2	1405.8	1444.6	1454.7
27.5°	1328.2	1343.3	1377.1	1421.0	1436.2
30°	1282.6	1299.5	1346.7	1397.3	1419.3
32.5°	1238.7	1255.6	1313.0	1377.1	1405.8
35°	1188.1	1210.0	1279.2	1360.2	1394.0
37.5°	1135.8	1159.4	1242.1	1343.3	1377.1
40°	1083.5	1110.5	1205.0	1319.7	1353.5
42.5°	1026.1	1058.1	1171.2	1282.6	1318.0
45°	965.3	1005.8	1130.7	1240.4	1277.5
47.5°	907.9	950.1	1086.8	1194.8	1226.9
50°	843.8	892.8	1031.1	1137.5	1167.8
52.5°	778.0	835.4	972.1	1078.4	1103.7
55°	712.2	769.6	907.9	1005.8	1036.2
57.5°	648.0	713.9	843.8	936.6	960.3
60°	585.6	648.0	769.6	860.7	889.4
62.5°	518.1	585.6	698.7	789.8	818.5
65°	457.3	518.1	627.8	717.2	747.6
67.5°	394.9	452.3	553.5	644.7	683.5
70°	329.1	386.5	484.3	580.5	621.0
72.5°	270.0	322.3	413.5	516.4	555.2
75°	211.0	265.0	347.6	448.9	489.4
77.5°	158.6	207.6	285.2	381.4	413.5
80°	111.4	156.9	226.1	285.2	293.6
82.5°	72.6	109.7	148.5	165.4	167.1
85°	40.5	64.1	75.9	79.3	84.4
87.5°	16.9	21.9	28.7	30.4	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)