

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: P219951

Luminaire Tested: **R3-WL-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-3L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

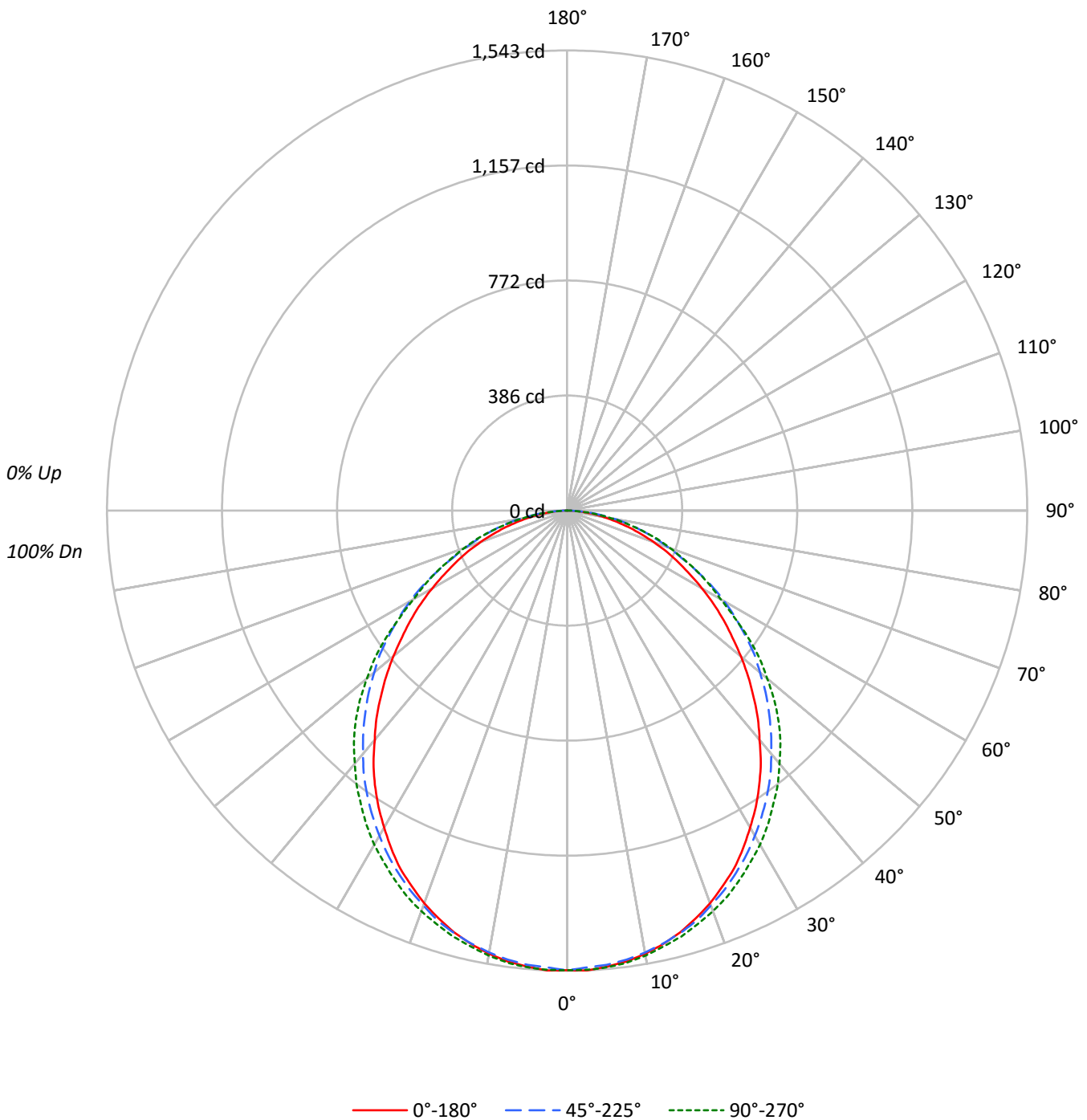
Lumens per Lamp: N/A
Luminaire Lumens: 4071.4 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4147	4147	4147
5°	4147	4130	4152
10°	4123	4112	4139
15°	4079	4085	4119
20°	4013	4036	4094
25°	3932	3980	4058
30°	3812	3913	4020
35°	3691	3837	3957
40°	3526	3740	3889
45°	3365	3643	3820
50°	3184	3532	3668
55°	3006	3415	3473
60°	2816	3274	3198
65°	2621	3047	3060
70°	2425	2840	2888
75°	2193	2699	2699
80°	1917	2514	2357
85°	1627	2066	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.6
10°-20°	414.6	10.2
20°-30°	619.2	15.2
30°-40°	729.6	17.9
40°-50°	733.2	18.0
50°-60°	634.2	15.6
60°-70°	458.8	11.3
70°-80°	263.7	6.5
80°-90°	72.3	1.8
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°	1179.5	29.0
0°-40°	1909.1	46.9
0°-60°	3276.5	80.5
0°-90°	4071.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4071.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1535	1535	1529	1537	1537	146
15°	1464	1466	1466	1478	1478	412
25°	1324	1328	1340	1363	1367	608
35°	1124	1138	1168	1198	1205	701
45°	884	910	957	996	1004	682
55°	641	671	728	750	740	573
65°	412	440	479	481	481	409
75°	211	233	260	268	260	224
85°	53	63	67	63	59	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1543.2	1541.2	1533.1	1541.2	1541.2
5°	1535.1	1535.1	1529.1	1537.2	1537.2
7.5°	1525.0	1523.0	1518.9	1527.0	1529.1
10°	1508.8	1508.8	1504.7	1514.9	1514.9
12.5°	1488.5	1488.5	1486.5	1498.6	1496.6
15°	1464.2	1466.2	1466.2	1478.4	1478.4
17.5°	1433.7	1437.8	1441.9	1456.0	1454.0
20°	1401.3	1405.3	1409.4	1427.7	1429.7
22.5°	1362.8	1368.8	1377.0	1399.3	1401.3
25°	1324.2	1328.3	1340.5	1362.8	1366.8
27.5°	1277.6	1285.7	1301.9	1328.3	1330.3
30°	1226.9	1241.1	1259.3	1287.7	1293.8
32.5°	1178.2	1190.4	1214.7	1245.1	1251.2
35°	1123.5	1137.7	1168.1	1198.5	1204.6
37.5°	1066.7	1080.9	1119.4	1151.9	1160.0
40°	1003.8	1024.1	1064.7	1101.2	1107.2
42.5°	947.0	965.3	1011.9	1048.4	1058.6
45°	884.2	910.5	957.2	995.7	1003.8
47.5°	823.3	847.7	902.4	938.9	943.0
50°	760.5	790.9	843.6	880.1	876.1
52.5°	697.6	730.1	790.9	813.2	813.2
55°	640.8	671.2	728.0	750.3	740.2
57.5°	582.0	614.5	669.2	683.4	663.1
60°	523.2	553.6	608.4	606.3	594.2
62.5°	464.4	496.8	545.5	541.5	537.4
65°	411.7	440.1	478.6	480.6	480.6
67.5°	361.0	389.4	415.7	425.9	419.8
70°	308.2	336.6	361.0	371.1	367.1
72.5°	257.5	288.0	308.2	320.4	316.4
75°	210.9	233.2	259.6	267.7	259.6
77.5°	164.3	186.6	210.9	215.0	206.8
80°	123.7	142.0	162.2	158.2	152.1
82.5°	87.2	101.4	113.6	107.5	103.4
85°	52.7	62.9	66.9	62.9	58.8
87.5°	22.3	26.4	26.4	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)