

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: P219998

Luminaire Tested: **R3-WN-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-3L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.5 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

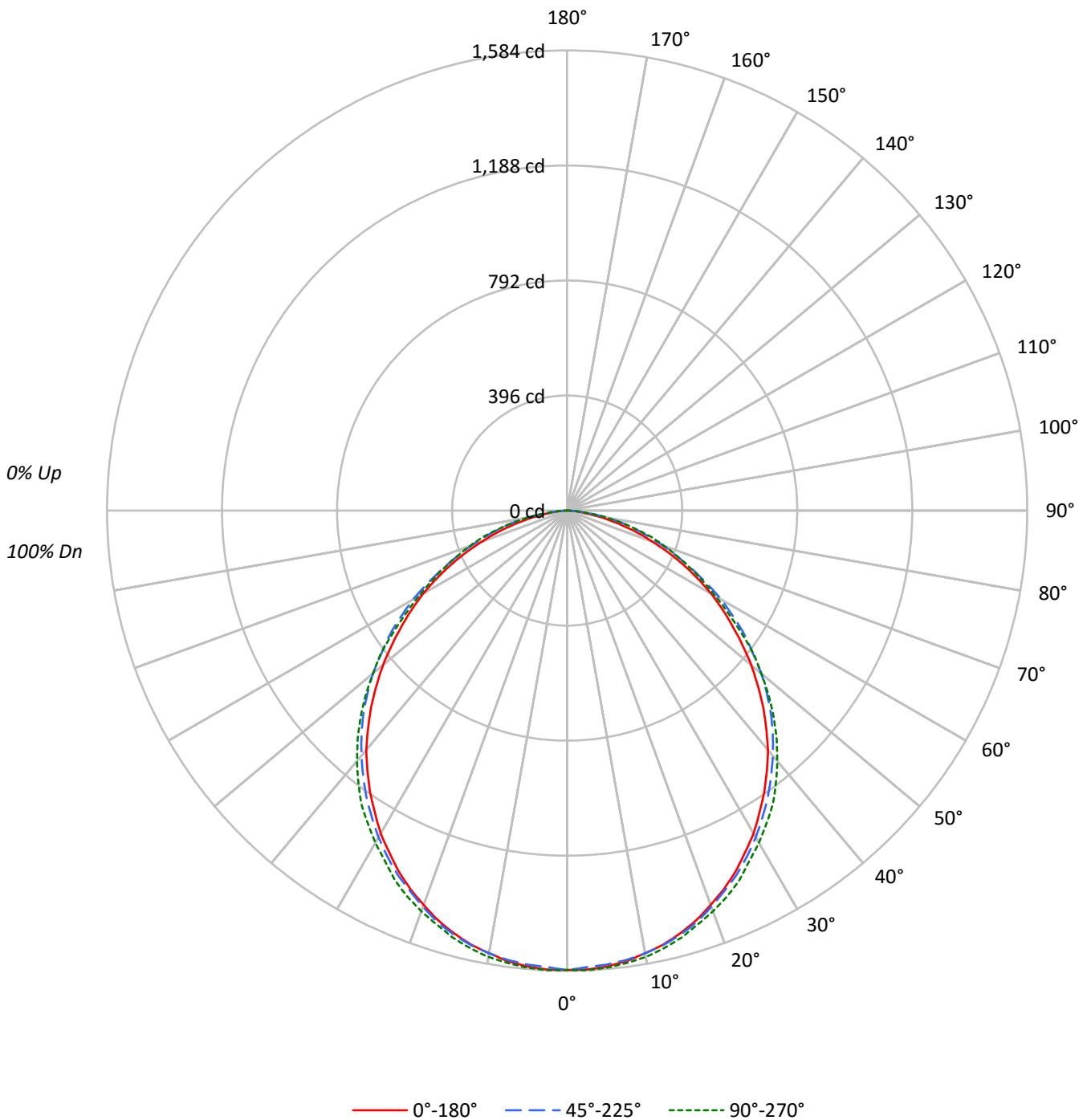
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																												
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																												
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4256	4256	4256
5°	4254	4237	4266
10°	4227	4227	4263
15°	4197	4209	4238
20°	4136	4154	4204
25°	4072	4104	4168
30°	3988	4035	4102
35°	3886	3956	4055
40°	3779	3869	3952
45°	3629	3776	3825
50°	3463	3651	3651
55°	3267	3499	3428
60°	3079	3299	3172
65°	2811	3002	2974
70°	2445	2748	2799
75°	2027	2495	2517
80°	1494	2092	2092
85°	991	1522	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	3.6
10°-20°	426.6	10.3
20°-30°	638.0	15.4
30°-40°	754.1	18.2
40°-50°	759.4	18.3
50°-60°	651.0	15.7
60°-70°	461.6	11.1
70°-80°	246.2	5.9
80°-90°	55.1	1.3
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°	1214.2	29.3
0°-40°	1968.2	47.5
0°-60°	3378.6	81.6
0°-90°	4141.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1575	1575	1569	1577	1579	149
15°	1506	1509	1511	1519	1521	424
25°	1371	1378	1382	1399	1404	631
35°	1183	1185	1204	1226	1234	739
45°	954	964	992	1007	1005	735
55°	696	716	746	741	731	624
65°	441	463	471	469	467	437
75°	195	221	240	249	242	211
85°	32	43	49	47	43	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1581.4	1579.3	1572.9	1583.6	1583.6
5°	1575.0	1575.0	1568.6	1577.1	1579.3
7.5°	1564.3	1564.3	1560.0	1570.7	1570.7
10°	1547.1	1549.3	1547.1	1557.9	1560.0
12.5°	1530.0	1532.1	1532.1	1540.7	1542.9
15°	1506.4	1508.6	1510.7	1519.3	1521.4
17.5°	1478.6	1482.9	1485.0	1493.6	1493.6
20°	1444.3	1450.7	1450.7	1465.7	1467.9
22.5°	1410.0	1414.3	1416.4	1433.6	1437.9
25°	1371.4	1377.9	1382.1	1399.3	1403.6
27.5°	1326.4	1332.9	1341.4	1360.7	1358.6
30°	1283.6	1285.7	1298.6	1317.9	1320.0
32.5°	1232.1	1238.6	1251.4	1272.9	1277.1
35°	1182.9	1185.0	1204.3	1225.7	1234.3
37.5°	1129.3	1135.7	1152.9	1176.4	1180.7
40°	1075.7	1080.0	1101.4	1127.1	1125.0
42.5°	1013.6	1022.1	1047.9	1067.1	1067.1
45°	953.6	964.3	992.1	1007.1	1005.0
47.5°	889.3	904.3	932.1	945.0	940.7
50°	827.1	842.1	872.1	878.6	872.1
52.5°	760.7	780.0	805.7	807.9	807.9
55°	696.4	715.7	745.7	741.4	730.7
57.5°	634.3	653.6	677.1	668.6	657.9
60°	572.1	589.3	612.9	595.7	589.3
62.5°	505.7	529.3	540.0	531.4	527.1
65°	441.4	462.9	471.4	469.3	467.1
67.5°	377.1	402.9	407.1	409.3	409.3
70°	310.7	340.7	349.3	355.7	355.7
72.5°	255.0	280.7	291.4	302.1	304.3
75°	195.0	220.7	240.0	248.6	242.1
77.5°	145.7	165.0	190.7	188.6	188.6
80°	96.4	117.9	135.0	139.3	135.0
82.5°	60.0	79.3	87.9	87.9	85.7
85°	32.1	42.9	49.3	47.1	42.9
87.5°	12.9	15.0	15.0	10.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)