

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: P219970

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-3L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3917.5 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

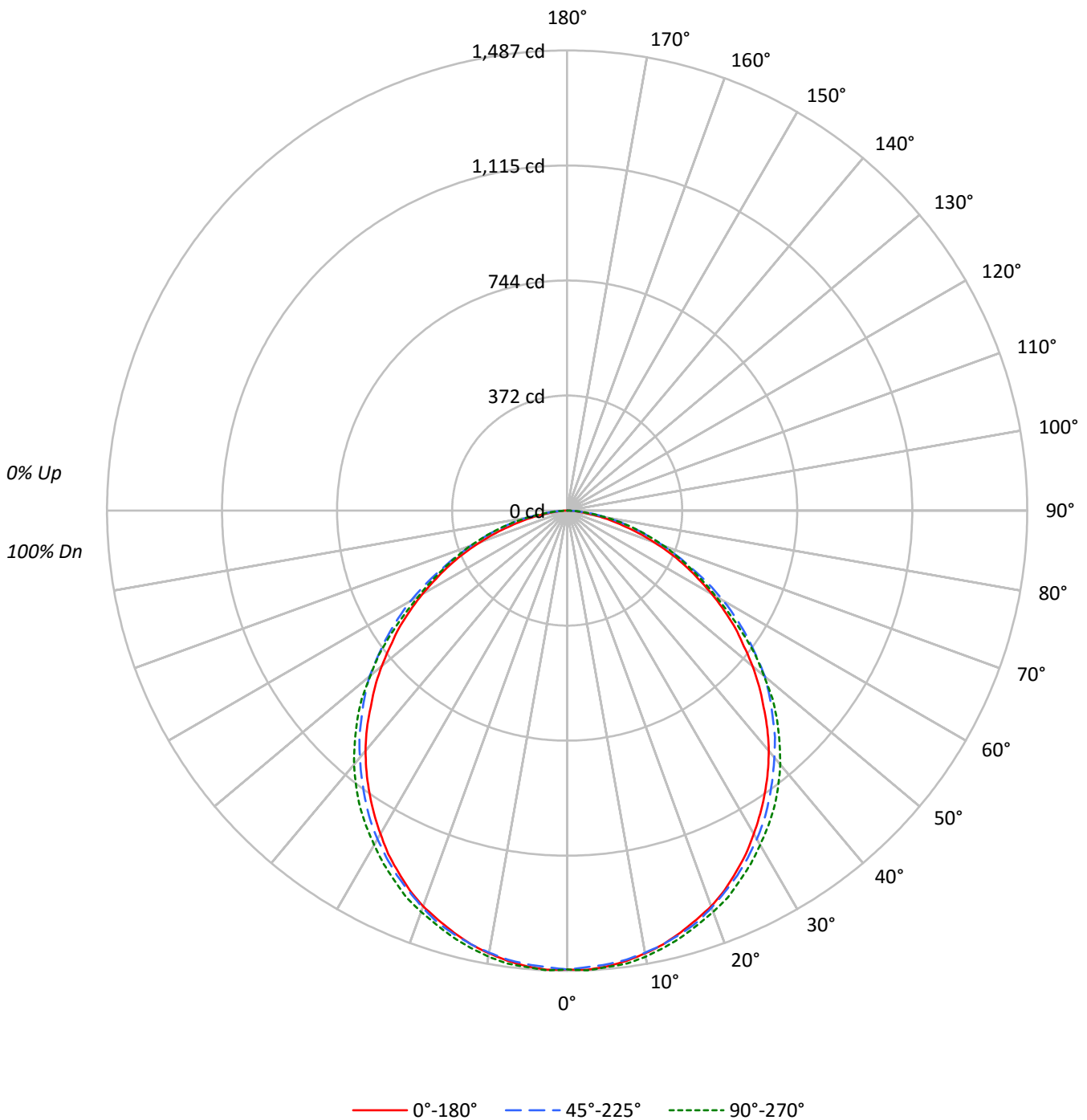
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	79	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	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		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	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	30	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3990	3990	3990
5°	3994	3977	4000
10°	3970	3964	3999
15°	3934	3946	3976
20°	3897	3909	3952
25°	3830	3862	3919
30°	3749	3809	3875
35°	3661	3738	3837
40°	3561	3658	3764
45°	3417	3572	3653
50°	3274	3490	3472
55°	3117	3328	3257
60°	2906	3137	2987
65°	2674	2852	2783
70°	2360	2580	2613
75°	1938	2339	2361
80°	1528	1993	1993
85°	1059	1454	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.6
10°-20°	400.4	10.2
20°-30°	601.0	15.3
30°-40°	712.8	18.2
40°-50°	720.5	18.4
50°-60°	619.5	15.8
60°-70°	437.1	11.2
70°-80°	233.0	5.9
80°-90°	52.8	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°	1141.8	29.1
0°-40°	1854.6	47.3
0°-60°	3194.6	81.5
0°-90°	3917.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3917.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1479	1476	1472	1481	1481	140
15°	1412	1416	1416	1427	1427	398
25°	1290	1294	1301	1320	1320	594
35°	1114	1123	1138	1161	1168	697
45°	898	913	939	956	960	694
55°	664	684	709	707	694	592
65°	420	441	448	444	437	415
75°	186	212	225	234	227	203
85°	34	41	47	43	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.9	1482.9	1482.9	1482.9	1482.9
2.5°	1485.0	1482.9	1476.4	1485.0	1487.1
5°	1478.6	1476.4	1472.1	1480.7	1480.7
7.5°	1467.9	1467.9	1463.6	1474.3	1476.4
10°	1452.9	1452.9	1450.7	1461.4	1463.6
12.5°	1435.7	1437.9	1435.7	1446.4	1446.4
15°	1412.1	1416.4	1416.4	1427.1	1427.1
17.5°	1386.4	1390.7	1395.0	1403.6	1403.6
20°	1360.7	1360.7	1365.0	1377.9	1380.0
22.5°	1328.6	1330.7	1332.9	1350.0	1354.3
25°	1290.0	1294.3	1300.7	1320.0	1320.0
27.5°	1251.4	1257.9	1264.3	1283.6	1285.7
30°	1206.4	1212.9	1225.7	1242.9	1247.1
32.5°	1161.4	1167.9	1185.0	1202.1	1208.6
35°	1114.3	1122.9	1137.9	1161.4	1167.9
37.5°	1065.0	1071.4	1090.7	1116.4	1120.7
40°	1013.6	1020.0	1041.4	1065.0	1071.4
42.5°	957.9	966.4	994.3	1015.7	1015.7
45°	897.9	912.9	938.6	955.7	960.0
47.5°	842.1	852.9	887.1	902.1	900.0
50°	782.1	797.1	833.6	837.9	829.3
52.5°	720.0	739.3	769.3	773.6	767.1
55°	664.3	683.6	709.3	707.1	694.3
57.5°	602.1	623.6	647.1	634.3	621.4
60°	540.0	561.4	582.9	563.6	555.0
62.5°	477.9	501.4	516.4	497.1	495.0
65°	420.0	441.4	447.9	443.6	437.1
67.5°	360.0	383.6	387.9	385.7	383.6
70°	300.0	325.7	327.9	332.1	332.1
72.5°	242.1	267.9	276.4	282.9	278.6
75°	186.4	212.1	225.0	233.6	227.1
77.5°	141.4	160.7	177.9	177.9	177.9
80°	98.6	115.7	128.6	130.7	128.6
82.5°	62.1	75.0	85.7	81.4	81.4
85°	34.3	40.7	47.1	42.9	42.9
87.5°	12.9	15.0	12.9	10.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)