

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: P219961

Luminaire Tested: **R3-WG-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219961
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-4L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

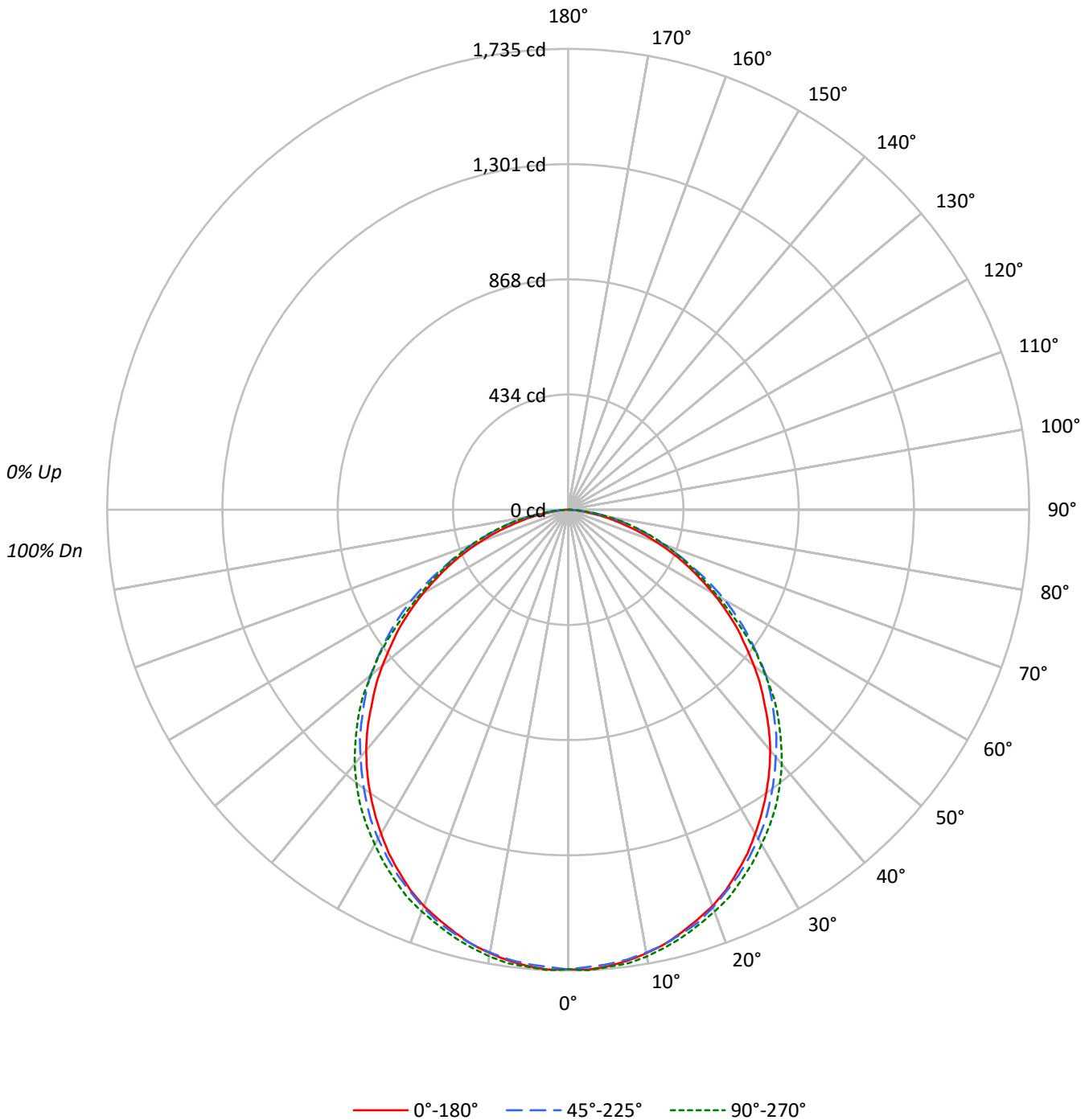
Lumens per Lamp: N/A
Luminaire Lumens: 4571.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.3
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°	4656	4656	4656
5°	4660	4640	4667
10°	4632	4626	4667
15°	4591	4605	4639
20°	4547	4561	4611
25°	4469	4507	4573
30°	4374	4444	4522
35°	4272	4362	4477
40°	4155	4269	4392
45°	3987	4168	4263
50°	3821	4072	4051
55°	3637	3883	3801
60°	3391	3660	3485
65°	3121	3328	3248
70°	2755	3010	3050
75°	2261	2730	2756
80°	1782	2325	2325
85°	1235	1698	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	3.6
10°-20°	467.3	10.2
20°-30°	701.3	15.3
30°-40°	831.8	18.2
40°-50°	840.7	18.4
50°-60°	722.9	15.8
60°-70°	510.1	11.2
70°-80°	271.9	5.9
80°-90°	61.6	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°	1332.3	29.1
0°-40°	2164.2	47.3
0°-60°	3727.7	81.5
0°-90°	4571.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4571.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1725	1723	1718	1728	1728	164
15°	1648	1653	1653	1665	1665	465
25°	1505	1510	1518	1540	1540	693
35°	1300	1310	1328	1355	1363	813
45°	1048	1065	1095	1115	1120	810
55°	775	798	828	825	810	691
65°	490	515	523	518	510	484
75°	218	248	263	273	265	236
85°	40	48	55	50	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1730.3	1730.3	1730.3	1730.3	1730.3
2.5°	1732.8	1730.3	1722.8	1732.8	1735.3
5°	1725.3	1722.8	1717.8	1727.8	1727.8
7.5°	1712.8	1712.8	1707.8	1720.3	1722.8
10°	1695.3	1695.3	1692.8	1705.3	1707.8
12.5°	1675.3	1677.8	1675.3	1687.8	1687.8
15°	1647.8	1652.8	1652.8	1665.3	1665.3
17.5°	1617.8	1622.8	1627.8	1637.8	1637.8
20°	1587.8	1587.8	1592.8	1607.8	1610.3
22.5°	1550.3	1552.8	1555.3	1575.3	1580.3
25°	1505.3	1510.3	1517.8	1540.3	1540.3
27.5°	1460.3	1467.8	1475.3	1497.8	1500.3
30°	1407.8	1415.3	1430.3	1450.3	1455.3
32.5°	1355.3	1362.8	1382.8	1402.8	1410.3
35°	1300.3	1310.3	1327.8	1355.3	1362.8
37.5°	1242.7	1250.3	1272.8	1302.8	1307.8
40°	1182.7	1190.2	1215.2	1242.7	1250.3
42.5°	1117.7	1127.7	1160.2	1185.2	1185.2
45°	1047.7	1065.2	1095.2	1115.2	1120.2
47.5°	982.7	995.2	1035.2	1052.7	1050.2
50°	912.7	930.2	972.7	977.7	967.7
52.5°	840.2	862.7	897.7	902.7	895.2
55°	775.2	797.7	827.7	825.2	810.2
57.5°	702.6	727.6	755.2	740.1	725.1
60°	630.1	655.1	680.1	657.6	647.6
62.5°	557.6	585.1	602.6	580.1	577.6
65°	490.1	515.1	522.6	517.6	510.1
67.5°	420.1	447.6	452.6	450.1	447.6
70°	350.1	380.1	382.6	387.6	387.6
72.5°	282.6	312.6	322.6	330.1	325.1
75°	217.5	247.5	262.6	272.6	265.1
77.5°	165.0	187.5	207.5	207.5	207.5
80°	115.0	135.0	150.0	152.5	150.0
82.5°	72.5	87.5	100.0	95.0	95.0
85°	40.0	47.5	55.0	50.0	50.0
87.5°	15.0	17.5	15.0	12.5	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)