

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: P220209

Luminaire Tested: **R3-WG-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
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-24
Description: CLASS R3 2X4 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: 5558.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

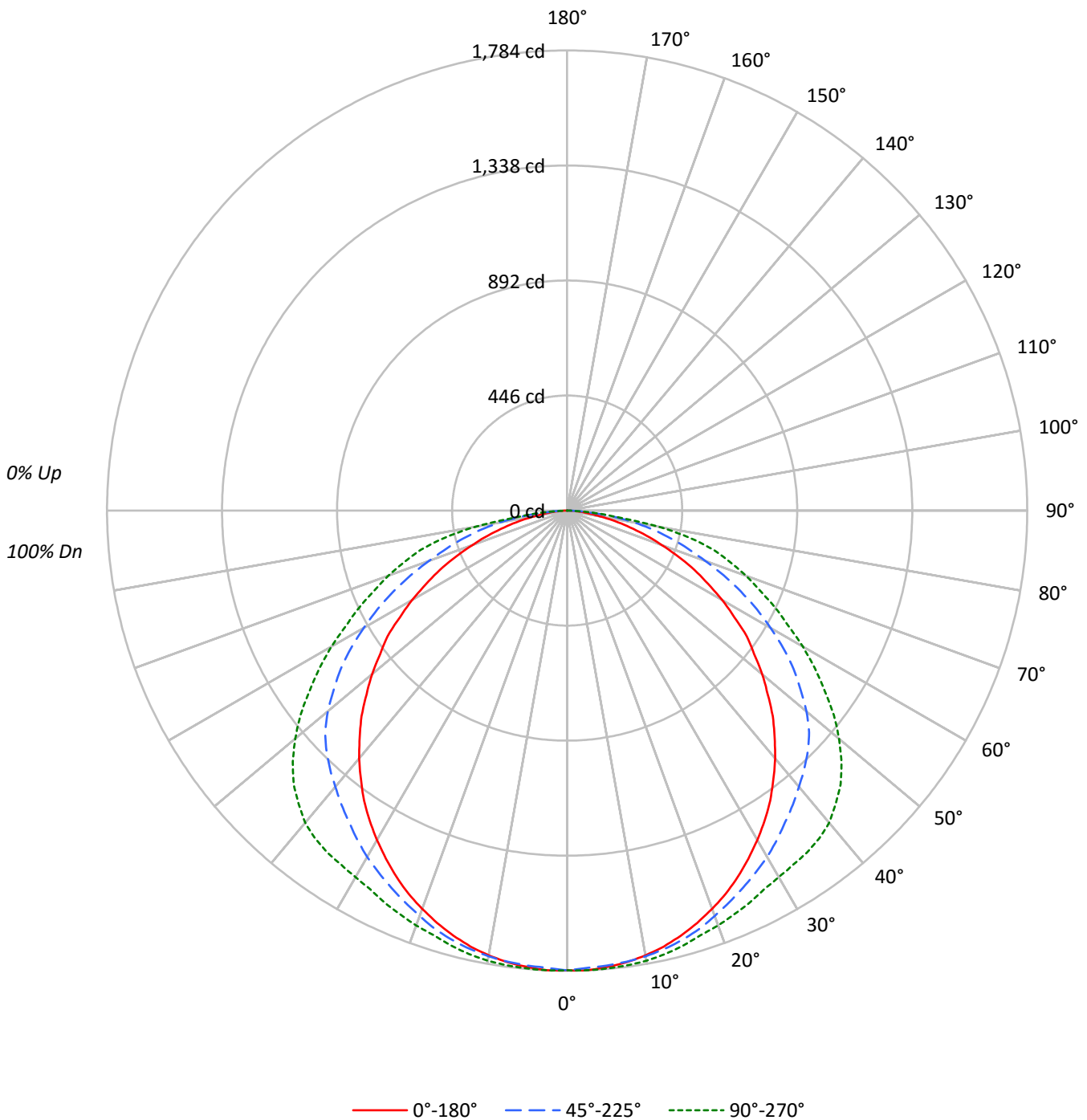
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2398	2398	2398
5°	2399	2391	2407
10°	2392	2397	2422
15°	2376	2400	2431
20°	2353	2395	2451
25°	2326	2395	2489
30°	2291	2409	2550
35°	2254	2422	2660
40°	2204	2455	2775
45°	2145	2511	2854
50°	2068	2536	2881
55°	1996	2516	2861
60°	1868	2453	2838
65°	1735	2366	2834
70°	1543	2237	2900
75°	1315	2161	3058
80°	1018	2051	2826
85°	727	1362	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.0
10°-20°	487.0	8.8
20°-30°	747.1	13.4
30°-40°	930.5	16.7
40°-50°	1011.5	18.2
50°-60°	937.5	16.9
60°-70°	722.9	13.0
70°-80°	441.1	7.9
80°-90°	111.3	2.0
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°	1403.1	25.2
0°-40°	2333.6	42.0
0°-60°	4282.6	77.1
0°-90°	5558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1776	1776	1770	1780	1782	169
15°	1706	1714	1723	1741	1745	481
25°	1566	1584	1614	1661	1676	721
35°	1372	1396	1474	1578	1619	857
45°	1127	1168	1320	1453	1500	867
55°	851	908	1072	1188	1220	754
65°	545	614	743	845	890	537
75°	253	314	416	533	588	270
85°	47	76	88	102	110	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.2	1782.2	1782.2	1782.2	1782.2
2.5°	1784.1	1780.2	1774.3	1782.2	1784.1
5°	1776.3	1776.3	1770.4	1780.2	1782.2
7.5°	1766.5	1764.5	1764.5	1774.3	1778.2
10°	1750.8	1750.8	1754.7	1768.4	1772.4
12.5°	1731.2	1733.1	1741.0	1756.7	1760.6
15°	1705.7	1713.5	1723.3	1741.0	1744.9
17.5°	1676.3	1684.1	1701.8	1719.4	1725.3
20°	1643.0	1654.7	1672.4	1701.8	1711.6
22.5°	1607.7	1621.4	1643.0	1680.2	1693.9
25°	1566.5	1584.1	1613.5	1660.6	1676.3
27.5°	1521.4	1541.0	1582.2	1635.1	1654.7
30°	1474.3	1494.0	1550.8	1613.5	1641.0
32.5°	1425.3	1444.9	1513.6	1593.9	1629.2
35°	1372.4	1395.9	1474.3	1578.3	1619.4
37.5°	1313.6	1339.1	1437.1	1560.6	1603.7
40°	1254.8	1284.2	1397.9	1535.1	1580.2
42.5°	1190.1	1231.2	1360.6	1497.9	1541.0
45°	1127.3	1168.5	1319.5	1452.8	1499.8
47.5°	1054.8	1109.7	1272.4	1397.9	1443.0
50°	988.1	1045.0	1211.6	1337.1	1376.3
52.5°	913.6	978.3	1141.1	1266.5	1303.8
55°	850.9	907.7	1072.4	1188.1	1219.5
57.5°	768.5	841.1	994.0	1105.8	1139.1
60°	694.0	762.7	911.7	1021.5	1054.8
62.5°	615.6	696.0	829.3	933.2	966.6
65°	545.0	613.7	743.1	845.0	890.1
67.5°	466.6	535.2	656.8	762.7	807.8
70°	392.1	460.7	568.6	684.2	737.2
72.5°	321.5	384.3	490.1	605.8	660.7
75°	252.9	313.7	415.6	533.3	588.2
77.5°	190.2	247.0	341.1	450.9	486.2
80°	131.4	184.3	264.7	341.1	364.7
82.5°	84.3	129.4	178.4	205.9	194.1
85°	47.1	76.5	88.2	101.9	109.8
87.5°	21.6	25.5	31.4	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)