

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: P220223

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-4L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5535.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

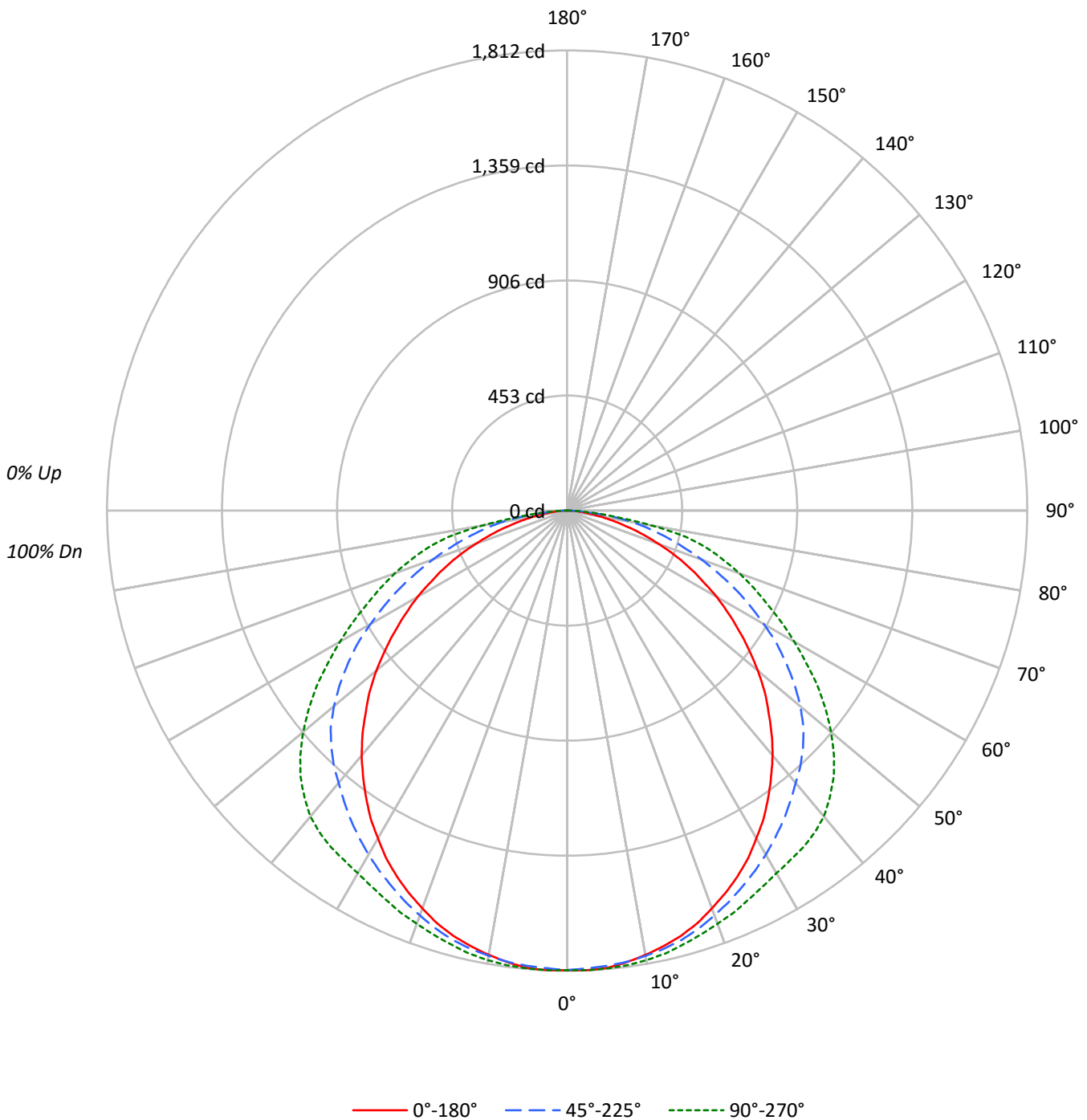
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2441	2431	2444
10°	2427	2432	2456
15°	2414	2436	2463
20°	2386	2428	2479
25°	2358	2425	2509
30°	2315	2431	2562
35°	2267	2441	2660
40°	2211	2459	2762
45°	2134	2500	2824
50°	2052	2507	2840
55°	1941	2474	2824
60°	1831	2406	2780
65°	1691	2322	2765
70°	1504	2214	2838
75°	1274	2100	2956
80°	1003	2035	2643
85°	727	1362	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.1
10°-20°	494.2	8.9
20°-30°	755.8	13.7
30°-40°	934.7	16.9
40°-50°	1006.5	18.2
50°-60°	924.0	16.7
60°-70°	709.2	12.8
70°-80°	431.7	7.8
80°-90°	107.7	1.9
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°	1421.7	25.7
0°-40°	2356.4	42.6
0°-60°	4286.9	77.4
0°-90°	5535.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5535.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1808	1804	1800	1808	1810	171
15°	1733	1737	1749	1766	1768	488
25°	1588	1606	1633	1678	1690	731
35°	1380	1406	1486	1580	1619	863
45°	1121	1168	1314	1441	1484	866
55°	827	894	1055	1168	1204	741
65°	531	602	729	833	868	525
75°	245	308	404	522	569	263
85°	47	74	88	92	98	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.6	1809.6	1809.6	1809.6	1809.6
2.5°	1811.6	1809.6	1803.7	1809.6	1811.6
5°	1807.6	1803.7	1799.8	1807.6	1809.6
7.5°	1793.9	1793.9	1792.0	1803.7	1805.7
10°	1776.3	1780.2	1780.2	1795.9	1797.8
12.5°	1756.7	1760.6	1766.5	1784.1	1786.1
15°	1733.1	1737.1	1748.8	1766.5	1768.4
17.5°	1703.7	1711.6	1725.3	1744.9	1750.8
20°	1666.5	1680.2	1695.9	1725.3	1731.2
22.5°	1629.2	1644.9	1666.5	1699.8	1713.5
25°	1588.1	1605.7	1633.2	1678.2	1690.0
27.5°	1543.0	1560.6	1599.8	1650.8	1668.4
30°	1490.0	1509.6	1564.5	1623.4	1648.8
32.5°	1439.1	1458.7	1525.3	1599.8	1633.2
35°	1380.2	1405.7	1486.1	1580.2	1619.4
37.5°	1319.5	1346.9	1443.0	1560.6	1599.8
40°	1258.7	1290.1	1399.8	1533.2	1572.4
42.5°	1192.0	1229.3	1360.6	1490.0	1531.2
45°	1121.4	1168.5	1313.6	1441.0	1484.2
47.5°	1054.8	1103.8	1262.6	1388.1	1425.3
50°	980.3	1037.1	1197.9	1321.4	1356.7
52.5°	903.8	970.5	1129.3	1252.8	1282.2
55°	827.4	894.0	1054.8	1168.5	1203.8
57.5°	752.9	829.3	980.3	1088.1	1115.6
60°	680.3	752.9	894.0	999.9	1033.2
62.5°	601.9	680.3	811.7	917.5	950.9
65°	531.3	601.9	729.3	833.2	868.5
67.5°	458.8	525.4	643.1	748.9	794.0
70°	382.3	449.0	562.7	674.4	721.5
72.5°	313.7	374.5	480.3	599.9	645.0
75°	245.1	307.8	403.9	521.5	568.6
77.5°	184.3	241.2	331.3	443.1	480.3
80°	129.4	182.3	262.7	331.3	341.1
82.5°	84.3	127.4	172.5	192.1	194.1
85°	47.1	74.5	88.2	92.1	98.0
87.5°	19.6	25.5	33.3	35.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)