

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: P220238

Luminaire Tested: **R3-WN-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-5L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6520.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

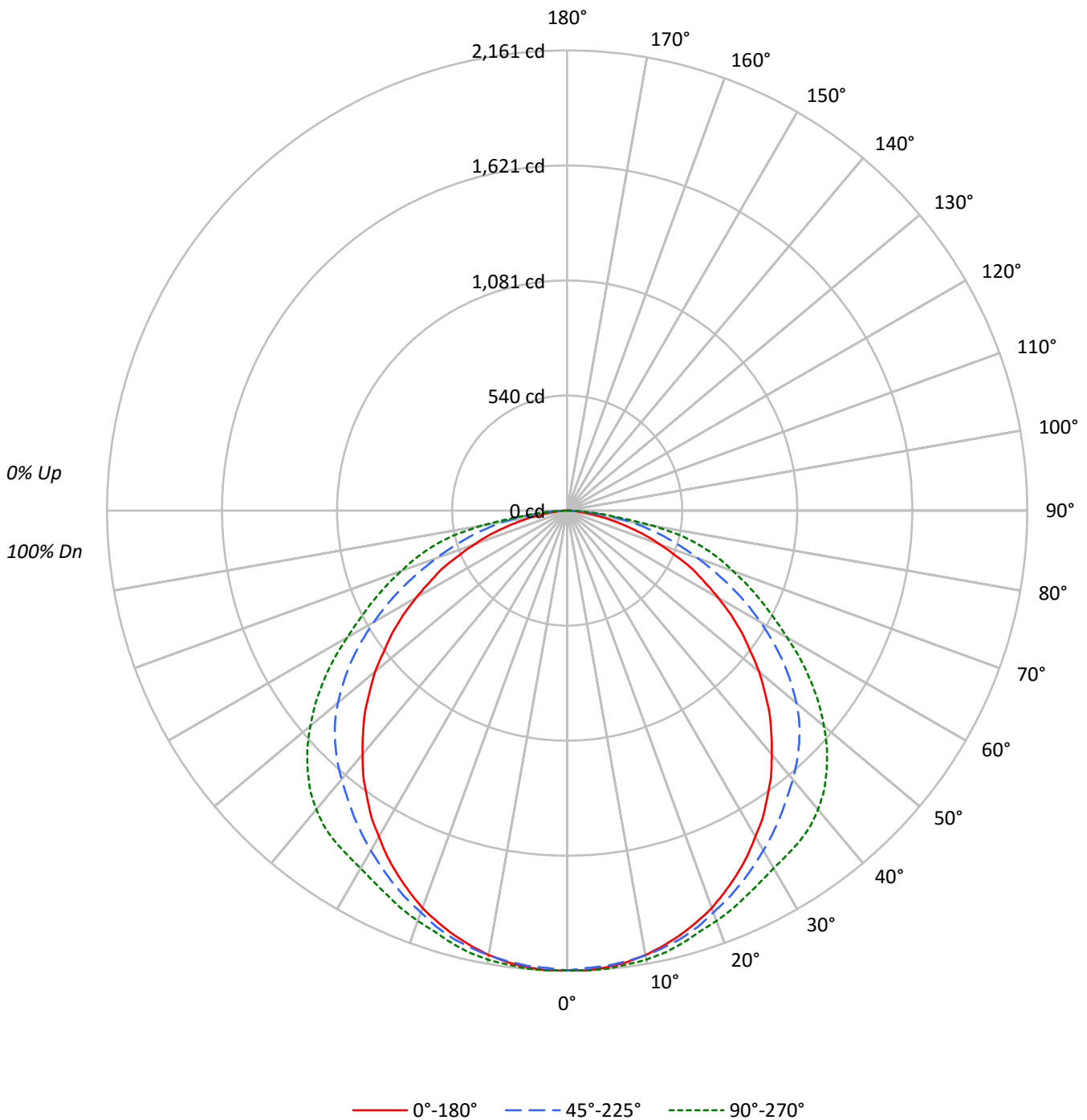
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
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°	2905	2905	2905
5°	2907	2898	2916
10°	2895	2898	2926
15°	2871	2896	2927
20°	2843	2875	2936
25°	2800	2869	2961
30°	2747	2864	3013
35°	2693	2871	3120
40°	2626	2895	3219
45°	2557	2933	3280
50°	2464	2943	3297
55°	2350	2907	3278
60°	2206	2821	3210
65°	2065	2708	3203
70°	1826	2569	3259
75°	1536	2459	3418
80°	1170	2341	3150
85°	789	1715	2092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.1
10°-20°	587.3	9.0
20°-30°	894.2	13.7
30°-40°	1101.9	16.9
40°-50°	1182.9	18.1
50°-60°	1086.0	16.7
60°-70°	830.6	12.7
70°-80°	503.6	7.7
80°-90°	129.4	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°	1686.1	25.9
0°-40°	2788.0	42.8
0°-60°	5056.9	77.6
0°-90°	6520.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6520.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2159	2159	2159	2159	2159	
5°	2152	2150	2146	2157	2159	204
15°	2061	2068	2079	2099	2101	581
25°	1886	1904	1932	1981	1995	868
35°	1639	1666	1748	1855	1899	1026
45°	1344	1386	1542	1682	1724	1034
55°	1002	1068	1239	1359	1397	894
65°	649	713	851	964	1006	636
75°	295	360	473	604	658	318
85°	51	87	111	127	136	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2159.0	2159.0	2159.0	2159.0	2159.0
2.5°	2161.3	2159.0	2150.2	2159.0	2161.3
5°	2152.4	2150.2	2145.7	2156.8	2159.0
7.5°	2139.0	2139.0	2134.6	2150.2	2150.2
10°	2119.1	2119.1	2121.3	2136.8	2141.3
12.5°	2092.4	2096.8	2101.3	2123.5	2125.7
15°	2061.3	2068.0	2079.1	2099.1	2101.3
17.5°	2025.8	2034.6	2048.0	2068.0	2072.4
20°	1985.8	1994.7	2008.0	2041.3	2050.2
22.5°	1936.9	1954.7	1972.5	2012.4	2025.8
25°	1885.8	1903.6	1932.5	1981.3	1994.7
27.5°	1830.3	1848.1	1888.0	1945.8	1965.8
30°	1768.1	1790.3	1843.6	1910.3	1939.1
32.5°	1710.3	1730.3	1797.0	1881.4	1919.1
35°	1639.3	1665.9	1748.1	1854.7	1899.2
37.5°	1572.6	1599.3	1697.0	1828.1	1872.5
40°	1494.9	1530.4	1648.2	1790.3	1832.5
42.5°	1419.4	1459.3	1597.1	1741.4	1785.9
45°	1343.8	1386.0	1541.5	1681.5	1723.7
47.5°	1257.2	1308.3	1479.3	1617.1	1654.8
50°	1177.3	1232.8	1406.0	1539.3	1574.9
52.5°	1084.0	1152.8	1323.9	1457.1	1490.4
55°	1001.8	1068.4	1239.4	1359.4	1397.2
57.5°	912.9	986.2	1146.2	1261.7	1299.4
60°	819.6	895.2	1048.4	1163.9	1192.8
62.5°	728.6	815.2	952.9	1059.5	1095.1
65°	648.6	713.0	850.7	964.0	1006.2
67.5°	550.9	621.9	748.6	866.3	917.4
70°	464.2	533.1	653.0	777.4	828.5
72.5°	382.1	442.0	559.8	690.8	748.6
75°	295.4	359.8	473.1	604.2	657.5
77.5°	222.1	282.1	384.3	515.3	553.1
80°	151.0	208.8	302.1	393.2	406.5
82.5°	95.5	144.4	206.6	233.2	233.2
85°	51.1	86.6	111.1	126.6	135.5
87.5°	20.0	28.9	42.2	42.2	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)