

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: P220235

Luminaire Tested: **R3-WN-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220235
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-2L30-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: 3806.5 lumens
Efficiency: N/A
Efficacy: 124.8 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

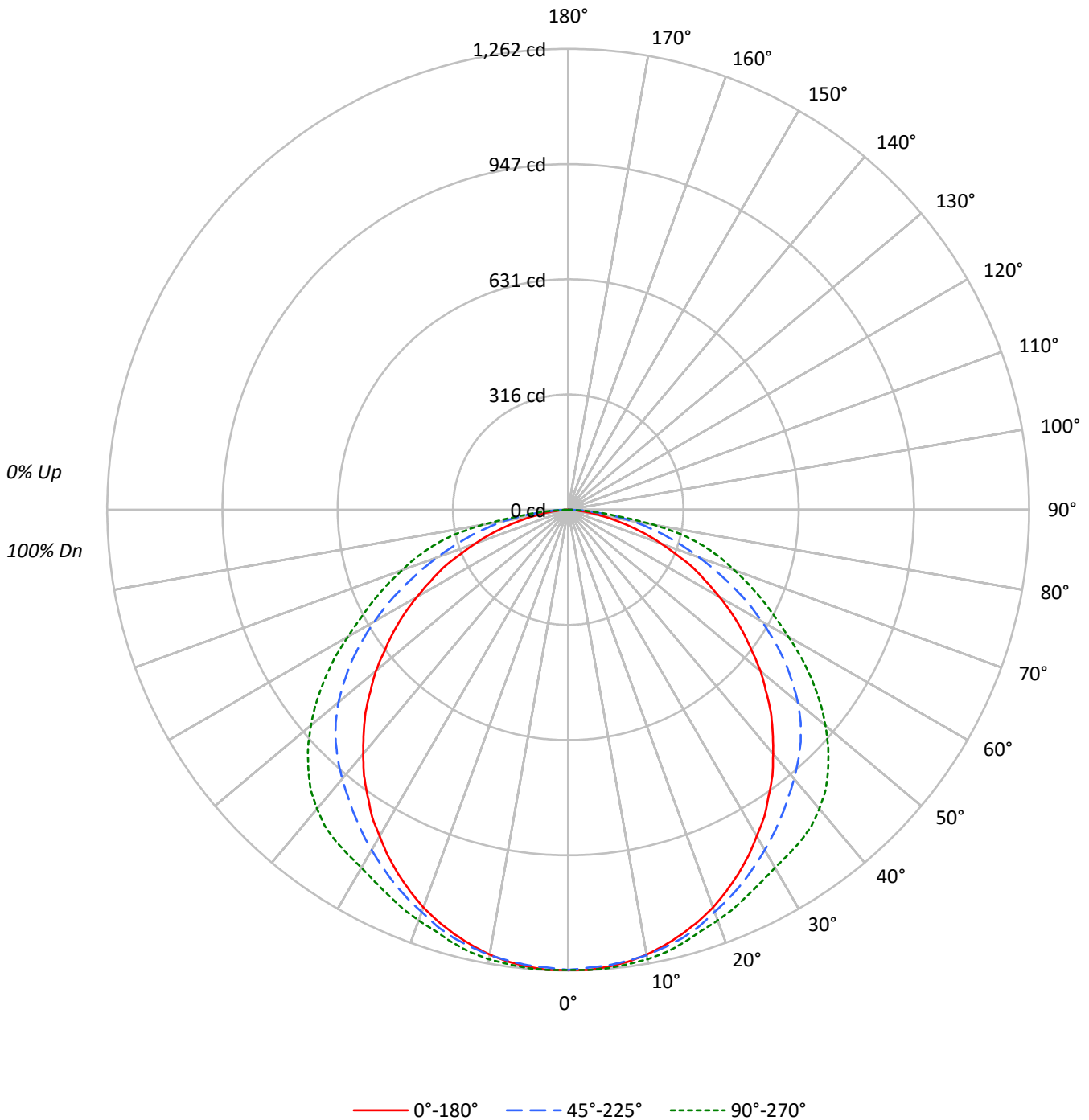
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1696	1696	1696
5°	1697	1692	1702
10°	1690	1692	1708
15°	1676	1691	1709
20°	1660	1678	1714
25°	1634	1675	1729
30°	1604	1672	1759
35°	1572	1676	1821
40°	1533	1690	1879
45°	1493	1712	1915
50°	1439	1718	1924
55°	1372	1697	1913
60°	1288	1647	1874
65°	1205	1581	1870
70°	1066	1500	1903
75°	897	1436	1995
80°	683	1367	1839
85°	460	1000	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.1
10°-20°	342.9	9.0
20°-30°	522.0	13.7
30°-40°	643.3	16.9
40°-50°	690.5	18.1
50°-60°	633.9	16.7
60°-70°	484.9	12.7
70°-80°	294.0	7.7
80°-90°	75.5	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°	984.3	25.9
0°-40°	1627.6	42.8
0°-60°	2952.1	77.6
0°-90°	3806.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1256	1255	1253	1259	1260	119
15°	1203	1207	1214	1225	1227	339
25°	1101	1111	1128	1157	1164	507
35°	957	972	1020	1083	1109	599
45°	784	809	900	982	1006	603
55°	585	624	724	794	816	522
65°	379	416	497	563	587	371
75°	172	210	276	353	384	186
85°	30	51	65	74	79	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1261.7	1260.4	1255.2	1260.4	1261.7
5°	1256.5	1255.2	1252.6	1259.1	1260.4
7.5°	1248.7	1248.7	1246.1	1255.2	1255.2
10°	1237.1	1237.1	1238.4	1247.4	1250.0
12.5°	1221.5	1224.1	1226.7	1239.7	1241.0
15°	1203.3	1207.2	1213.7	1225.4	1226.7
17.5°	1182.6	1187.8	1195.6	1207.2	1209.8
20°	1159.3	1164.4	1172.2	1191.7	1196.9
22.5°	1130.7	1141.1	1151.5	1174.8	1182.6
25°	1100.9	1111.3	1128.1	1156.7	1164.4
27.5°	1068.5	1078.9	1102.2	1135.9	1147.6
30°	1032.2	1045.1	1076.3	1115.2	1132.0
32.5°	998.5	1010.1	1049.0	1098.3	1120.4
35°	957.0	972.5	1020.5	1082.8	1108.7
37.5°	918.1	933.6	990.7	1067.2	1093.1
40°	872.7	893.4	962.2	1045.1	1069.8
42.5°	828.6	851.9	932.3	1016.6	1042.6
45°	784.5	809.1	899.9	981.6	1006.2
47.5°	733.9	763.8	863.6	944.0	966.0
50°	687.3	719.7	820.8	898.6	919.4
52.5°	632.8	673.0	772.8	850.6	870.1
55°	584.8	623.7	723.6	793.6	815.6
57.5°	532.9	575.7	669.1	736.5	758.6
60°	478.5	522.6	612.0	679.5	696.3
62.5°	425.3	475.9	556.3	618.5	639.3
65°	378.6	416.2	496.6	562.8	587.4
67.5°	321.6	363.1	437.0	505.7	535.5
70°	271.0	311.2	381.2	453.8	483.7
72.5°	223.0	258.0	326.8	403.3	437.0
75°	172.5	210.1	276.2	352.7	383.8
77.5°	129.7	164.7	224.3	300.8	322.9
80°	88.2	121.9	176.4	229.5	237.3
82.5°	55.8	84.3	120.6	136.2	136.2
85°	29.8	50.6	64.8	73.9	79.1
87.5°	11.7	16.9	24.6	24.6	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)