

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: P220112

Luminaire Tested: **R3-WN-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-6L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4306.7 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

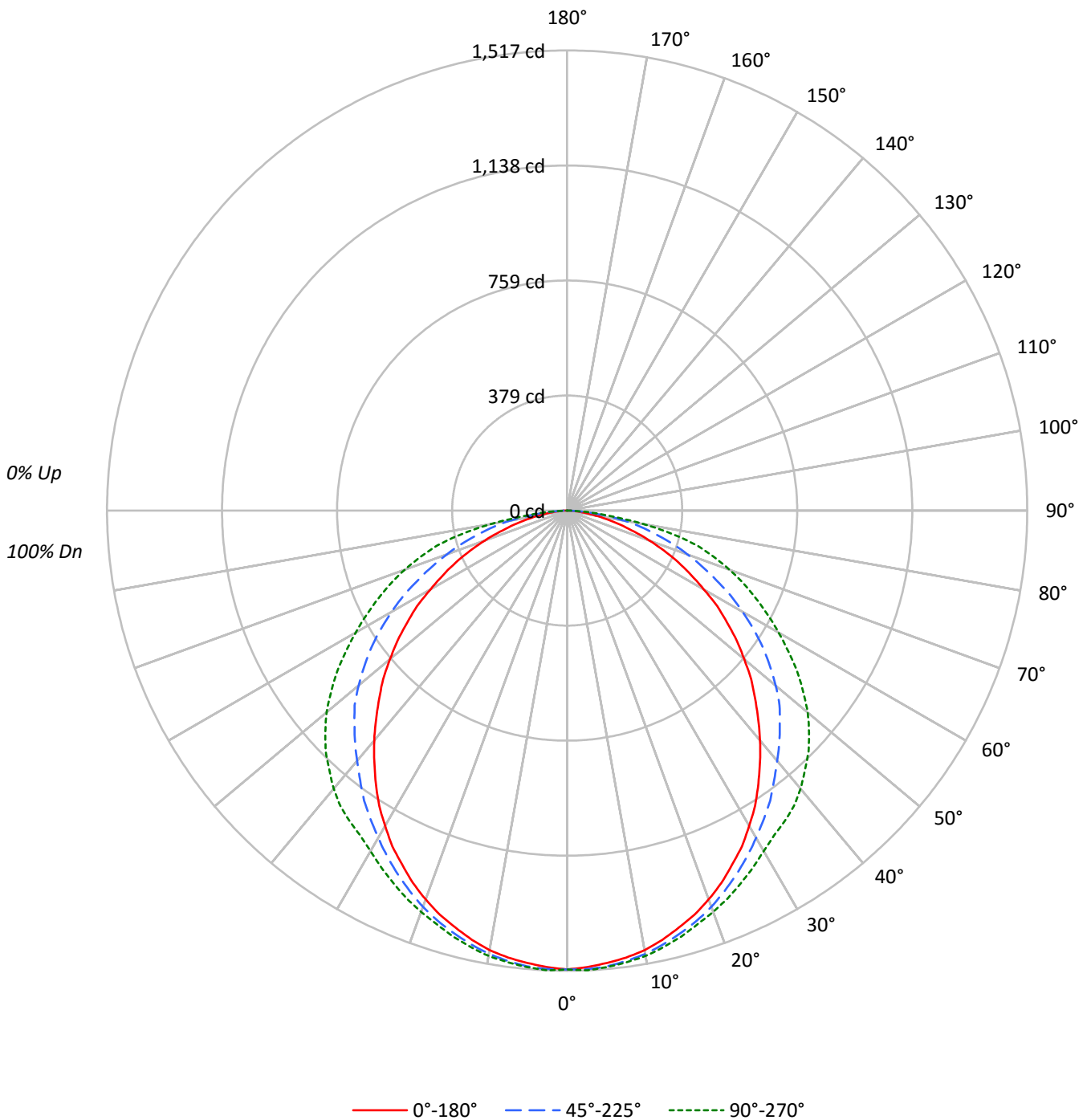
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4071	4071	4071
5°	4045	4075	4081
10°	4020	4056	4074
15°	3964	4019	4050
20°	3906	3981	4031
25°	3822	3926	4024
30°	3728	3871	4027
35°	3610	3833	4107
40°	3476	3784	4207
45°	3333	3774	4282
50°	3190	3758	4335
55°	3019	3697	4344
60°	2804	3594	4336
65°	2579	3457	4377
70°	2274	3324	4478
75°	1889	3164	4598
80°	1492	2952	3936
85°	1013	2096	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.3
10°-20°	406.5	9.4
20°-30°	609.4	14.2
30°-40°	732.2	17.0
40°-50°	768.7	17.8
50°-60°	701.2	16.3
60°-70°	540.2	12.5
70°-80°	325.0	7.5
80°-90°	80.6	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°	1158.9	26.9
0°-40°	1891.1	43.9
0°-60°	3361.0	78.0
0°-90°	4306.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1497	1502	1508	1511	1511	142
15°	1423	1430	1443	1452	1454	401
25°	1287	1298	1322	1346	1355	593
35°	1099	1116	1167	1222	1250	687
45°	876	904	992	1086	1125	677
55°	644	685	788	887	926	576
65°	405	449	543	644	687	400
75°	182	226	304	398	442	196
85°	33	48	68	79	85	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1506.2	1508.4	1512.8	1517.1	1517.1
5°	1497.4	1501.8	1508.4	1510.6	1510.6
7.5°	1486.5	1490.9	1497.4	1501.8	1501.8
10°	1471.2	1473.4	1484.3	1488.7	1490.9
12.5°	1449.3	1455.8	1464.6	1473.4	1473.4
15°	1423.0	1429.6	1442.7	1451.5	1453.7
17.5°	1396.7	1403.3	1418.6	1429.6	1429.6
20°	1363.9	1372.7	1390.2	1403.3	1407.7
22.5°	1328.9	1337.6	1357.3	1374.8	1383.6
25°	1287.3	1298.2	1322.3	1346.4	1355.1
27.5°	1247.9	1256.6	1285.1	1317.9	1326.7
30°	1199.7	1212.8	1245.7	1282.9	1296.0
32.5°	1153.7	1166.9	1206.3	1250.1	1269.8
35°	1099.0	1116.5	1166.9	1221.6	1250.1
37.5°	1044.3	1064.0	1120.9	1193.1	1228.2
40°	989.5	1011.4	1077.1	1166.9	1197.5
42.5°	932.6	958.9	1035.5	1129.6	1160.3
45°	875.7	904.2	991.7	1085.9	1125.3
47.5°	823.2	851.6	950.1	1044.3	1081.5
50°	761.9	796.9	897.6	998.3	1035.5
52.5°	704.9	737.8	842.9	943.6	980.8
55°	643.6	685.2	788.1	886.6	926.0
57.5°	586.7	623.9	729.0	825.3	864.8
60°	521.0	564.8	667.7	764.0	805.6
62.5°	461.9	505.7	608.6	702.7	746.5
65°	405.0	448.8	542.9	643.6	687.4
67.5°	345.9	391.9	481.6	584.5	630.5
70°	289.0	330.6	422.5	523.2	569.2
72.5°	232.1	275.8	363.4	461.9	505.7
75°	181.7	225.5	304.3	398.4	442.2
77.5°	137.9	173.0	249.6	328.4	354.7
80°	96.3	129.2	190.5	243.0	254.0
82.5°	61.3	87.6	124.8	153.2	151.1
85°	32.8	48.2	67.9	78.8	85.4
87.5°	15.3	17.5	21.9	28.5	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)