

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: P220194

Luminaire Tested: **R3-WL-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-3L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4995.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

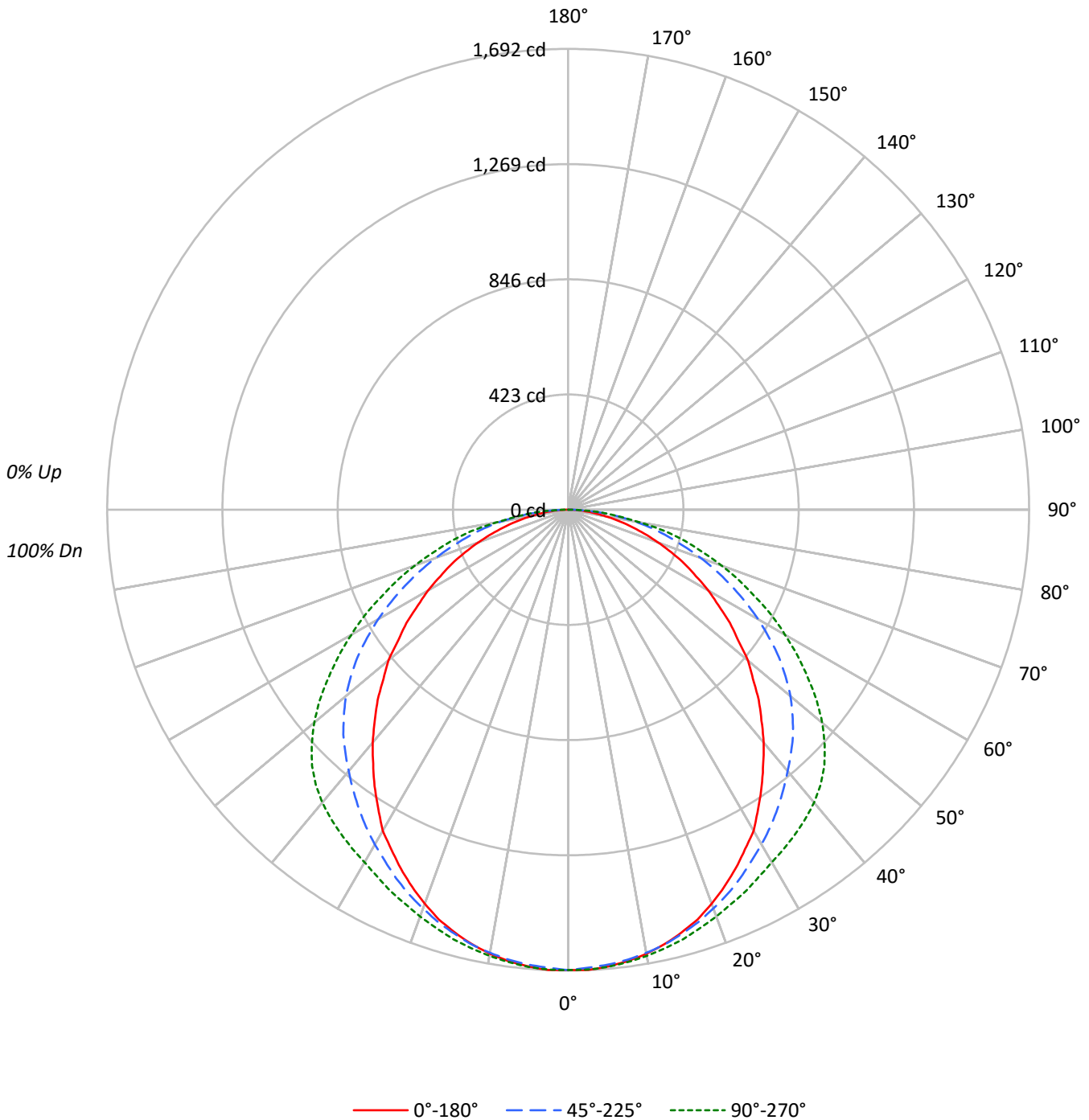
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		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	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2274	2274	2274
5°	2274	2265	2276
10°	2262	2257	2273
15°	2239	2246	2274
20°	2204	2231	2275
25°	2158	2217	2293
30°	2115	2204	2323
35°	2034	2200	2388
40°	1961	2202	2466
45°	1882	2222	2530
50°	1804	2229	2548
55°	1699	2215	2518
60°	1598	2167	2474
65°	1500	2101	2411
70°	1379	2036	2355
75°	1247	1969	2304
80°	1089	1935	2063
85°	945	1737	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.2
10°-20°	456.3	9.1
20°-30°	690.2	13.8
30°-40°	841.8	16.8
40°-50°	895.9	17.9
50°-60°	821.2	16.4
60°-70°	631.2	12.6
70°-80°	382.4	7.7
80°-90°	117.0	2.3
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°	1306.3	26.1
0°-40°	2148.1	43.0
0°-60°	3865.1	77.4
0°-90°	4995.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4995.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1683	1682	1677	1685	1685	160
15°	1607	1609	1612	1627	1632	453
25°	1454	1465	1493	1530	1544	670
35°	1239	1268	1340	1422	1454	775
45°	989	1035	1168	1292	1330	762
55°	724	787	944	1047	1073	646
65°	471	531	660	739	757	466
75°	240	293	379	435	443	255
85°	61	91	112	126	124	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1691.7	1688.4	1683.4	1690.1	1690.1
5°	1683.4	1681.8	1676.8	1685.1	1685.1
7.5°	1671.9	1670.2	1666.9	1676.8	1675.2
10°	1655.3	1653.7	1652.0	1663.6	1663.6
12.5°	1633.8	1633.8	1635.5	1647.1	1648.7
15°	1607.4	1609.0	1612.3	1627.2	1632.2
17.5°	1577.6	1579.3	1587.5	1607.4	1610.7
20°	1539.6	1544.5	1557.8	1584.2	1589.2
22.5°	1498.2	1506.5	1528.0	1557.8	1566.0
25°	1453.6	1465.2	1493.3	1529.7	1544.5
27.5°	1405.6	1418.9	1455.2	1501.5	1518.1
30°	1361.0	1374.2	1418.9	1476.7	1494.9
32.5°	1298.1	1321.3	1380.8	1448.6	1475.1
35°	1238.6	1268.4	1339.5	1422.2	1453.6
37.5°	1175.8	1213.8	1296.5	1397.4	1430.4
40°	1116.2	1155.9	1253.5	1365.9	1404.0
42.5°	1050.1	1096.4	1210.5	1331.2	1370.9
45°	988.9	1035.2	1167.5	1291.5	1329.6
47.5°	919.4	974.0	1116.2	1245.2	1276.6
50°	861.6	912.8	1065.0	1184.0	1217.1
52.5°	785.5	853.3	1005.4	1117.9	1149.3
55°	724.3	787.2	944.2	1046.8	1073.2
57.5°	653.2	729.3	874.8	975.7	998.8
60°	593.7	659.8	805.3	897.9	919.4
62.5°	529.2	600.3	732.6	818.6	843.4
65°	471.3	530.8	659.8	739.2	757.4
67.5°	410.1	471.3	588.7	661.5	679.7
70°	350.6	415.1	517.6	583.7	598.6
72.5°	292.7	348.9	444.8	509.3	517.6
75°	239.8	292.7	378.7	434.9	443.2
77.5°	190.2	238.1	315.9	360.5	363.8
80°	140.6	186.9	249.7	272.9	266.2
82.5°	99.2	135.6	181.9	186.9	183.6
85°	61.2	91.0	112.5	125.7	124.0
87.5°	26.5	41.3	57.9	54.6	57.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)