

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: P220124

Luminaire Tested: **R3-WN-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220124
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-6L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4602.5 lumens
Efficiency: N/A
Efficacy: 115.4 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

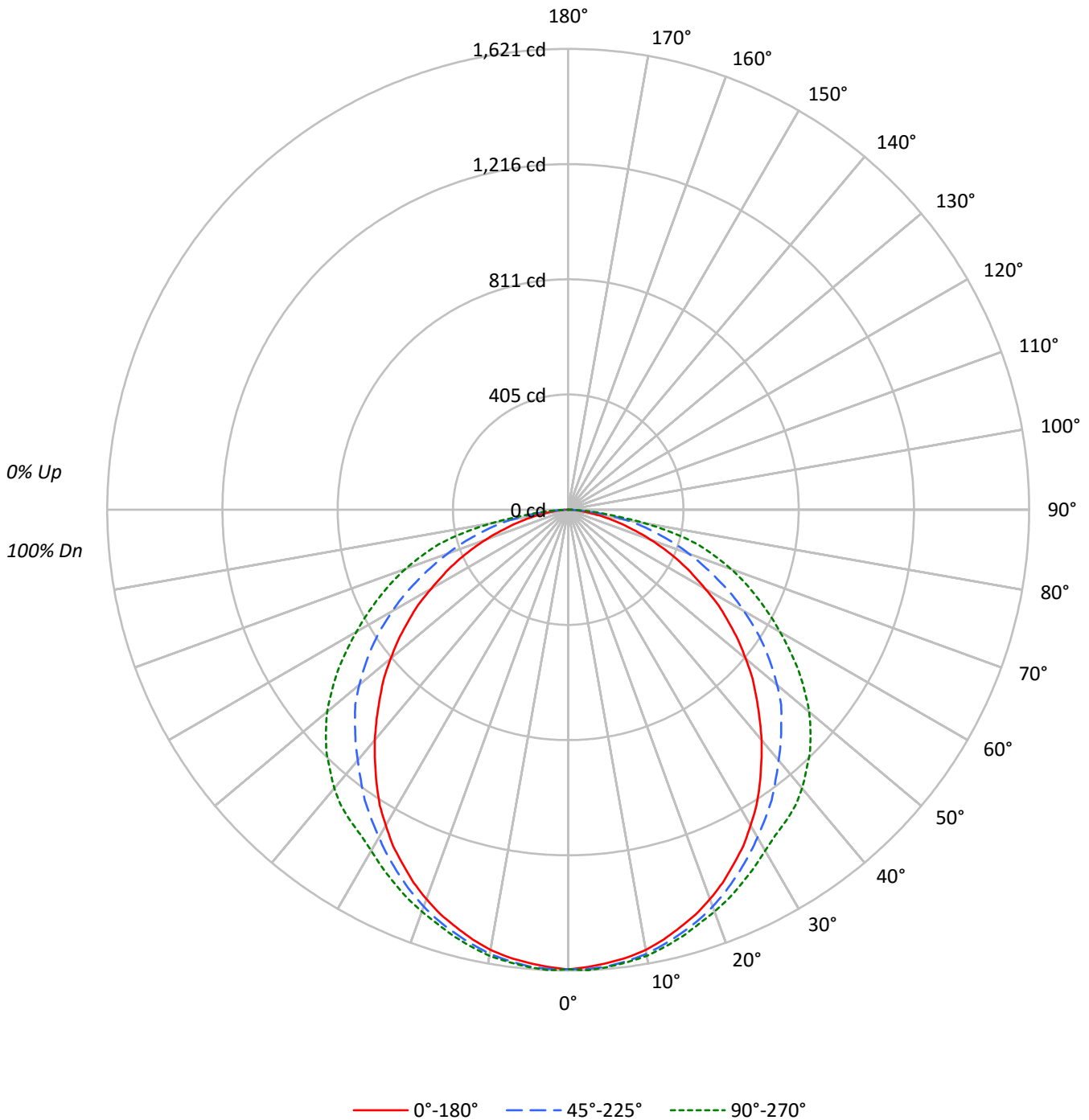
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4350	4350	4350
5°	4323	4354	4361
10°	4296	4334	4353
15°	4237	4295	4328
20°	4174	4254	4308
25°	4085	4196	4300
30°	3984	4136	4304
35°	3858	4096	4389
40°	3715	4044	4495
45°	3561	4033	4576
50°	3409	4016	4633
55°	3227	3951	4643
60°	2997	3841	4634
65°	2756	3694	4677
70°	2430	3552	4786
75°	2019	3381	4914
80°	1595	3154	4206
85°	1084	2238	2816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.3
10°-20°	434.4	9.4
20°-30°	651.3	14.2
30°-40°	782.4	17.0
40°-50°	821.4	17.8
50°-60°	749.4	16.3
60°-70°	577.3	12.5
70°-80°	347.3	7.5
80°-90°	86.1	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°	1238.5	26.9
0°-40°	2020.9	43.9
0°-60°	3591.8	78.0
0°-90°	4602.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1600	1605	1612	1614	1614	152
15°	1521	1528	1542	1551	1554	429
25°	1376	1387	1413	1439	1448	634
35°	1174	1193	1247	1306	1336	734
45°	936	966	1060	1160	1202	723
55°	688	732	842	948	990	615
65°	433	480	580	688	735	427
75°	194	241	325	426	473	210
85°	35	52	72	84	91	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.6	1616.6	1616.6	1616.6	1616.6
2.5°	1609.6	1612.0	1616.6	1621.3	1621.3
5°	1600.3	1604.9	1612.0	1614.3	1614.3
7.5°	1588.6	1593.2	1600.3	1604.9	1604.9
10°	1572.2	1574.5	1586.2	1590.9	1593.2
12.5°	1548.8	1555.8	1565.2	1574.5	1574.5
15°	1520.7	1527.7	1541.8	1551.1	1553.5
17.5°	1492.6	1499.7	1516.0	1527.7	1527.7
20°	1457.6	1466.9	1485.6	1499.7	1504.3
22.5°	1420.1	1429.5	1450.5	1469.3	1478.6
25°	1375.7	1387.4	1413.1	1438.8	1448.2
27.5°	1333.6	1342.9	1373.3	1408.4	1417.8
30°	1282.1	1296.1	1331.2	1371.0	1385.0
32.5°	1233.0	1247.0	1289.1	1335.9	1357.0
35°	1174.5	1193.2	1247.0	1305.5	1335.9
37.5°	1116.0	1137.0	1197.9	1275.1	1312.5
40°	1057.5	1080.9	1151.1	1247.0	1279.7
42.5°	996.7	1024.7	1106.6	1207.2	1240.0
45°	935.8	966.2	1059.8	1160.4	1202.5
47.5°	879.7	910.1	1015.4	1116.0	1155.7
50°	814.2	851.6	959.2	1066.8	1106.6
52.5°	753.3	788.4	900.7	1008.4	1048.1
55°	687.8	732.3	842.2	947.5	989.6
57.5°	627.0	666.8	779.1	882.0	924.1
60°	556.8	603.6	713.6	816.5	861.0
62.5°	493.7	540.4	650.4	751.0	797.8
65°	432.8	479.6	580.2	687.8	734.6
67.5°	369.7	418.8	514.7	624.7	673.8
70°	308.8	353.3	451.5	559.2	608.3
72.5°	248.0	294.8	388.4	493.7	540.4
75°	194.2	241.0	325.2	425.8	472.6
77.5°	147.4	184.8	266.7	350.9	379.0
80°	102.9	138.0	203.5	259.7	271.4
82.5°	65.5	93.6	133.4	163.8	161.4
85°	35.1	51.5	72.5	84.2	91.2
87.5°	16.4	18.7	23.4	30.4	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)