

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: P220090

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-6L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4348.9 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

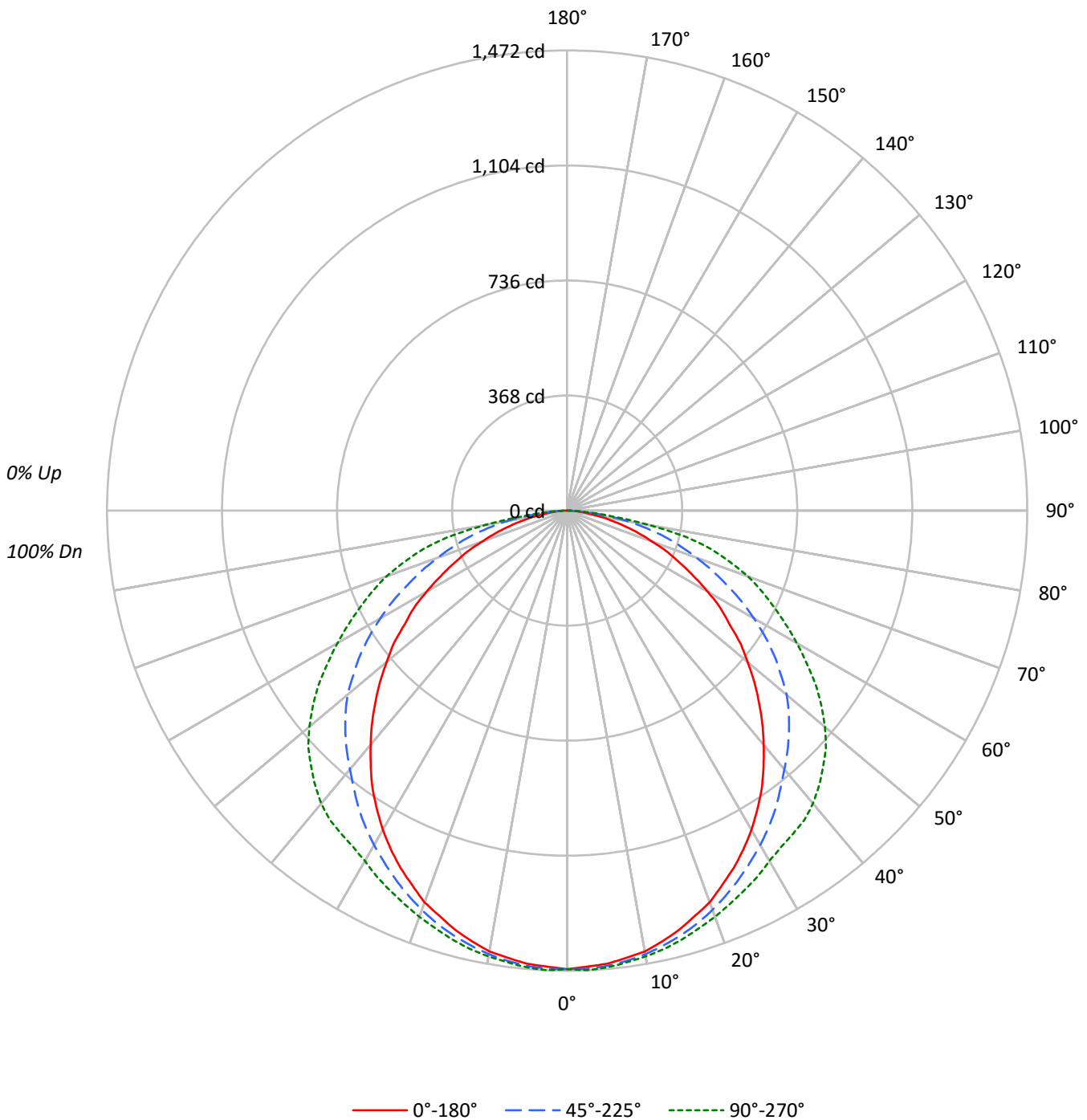
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37					37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3947	3947	3947
5°	3931	3950	3962
10°	3912	3938	3957
15°	3865	3917	3956
20°	3819	3893	3960
25°	3744	3862	3980
30°	3664	3838	4020
35°	3566	3820	4142
40°	3435	3797	4298
45°	3303	3820	4407
50°	3154	3839	4505
55°	2974	3798	4555
60°	2795	3715	4571
65°	2548	3590	4648
70°	2282	3460	4841
75°	1970	3357	4963
80°	1559	3082	4133
85°	1155	2022	2238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	3.2
10°-20°	396.5	9.1
20°-30°	599.9	13.8
30°-40°	730.8	16.8
40°-50°	778.4	17.9
50°-60°	719.1	16.5
60°-70°	560.6	12.9
70°-80°	343.4	7.9
80°-90°	81.4	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°	1135.2	26.1
0°-40°	1866.0	42.9
0°-60°	3363.5	77.3
0°-90°	4348.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4348.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1455	1458	1462	1465	1467	138
15°	1387	1392	1406	1418	1420	391
25°	1261	1273	1301	1329	1341	581
35°	1086	1104	1163	1228	1261	677
45°	868	903	1004	1118	1158	669
55°	634	690	810	926	971	570
65°	400	456	564	676	730	399
75°	190	232	323	428	477	202
85°	37	52	66	77	72	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1459.9	1462.2	1466.9	1469.3	1471.6
5°	1455.2	1457.6	1462.2	1464.6	1466.9
7.5°	1443.5	1448.2	1452.9	1457.6	1457.6
10°	1431.8	1434.2	1441.2	1445.9	1448.2
12.5°	1410.8	1415.4	1424.8	1434.2	1436.5
15°	1387.4	1392.0	1406.1	1417.8	1420.1
17.5°	1359.3	1368.6	1385.0	1396.7	1401.4
20°	1333.6	1340.6	1359.3	1375.7	1382.7
22.5°	1296.1	1307.8	1331.2	1352.3	1361.6
25°	1261.0	1272.7	1300.8	1328.9	1340.6
27.5°	1221.3	1235.3	1268.0	1307.8	1319.5
30°	1179.1	1193.2	1235.3	1279.7	1293.8
32.5°	1132.4	1148.7	1200.2	1251.7	1275.1
35°	1085.6	1104.3	1162.8	1228.3	1261.0
37.5°	1031.8	1057.5	1120.7	1207.2	1247.0
40°	977.9	1006.0	1080.9	1186.2	1223.6
42.5°	924.1	954.5	1043.4	1153.4	1193.2
45°	868.0	903.1	1003.7	1118.3	1158.1
47.5°	811.8	849.3	961.6	1078.5	1123.0
50°	753.3	795.5	917.1	1031.8	1076.2
52.5°	699.5	739.3	861.0	980.3	1024.7
55°	634.0	690.2	809.5	926.5	970.9
57.5°	582.6	624.7	751.0	865.6	907.8
60°	519.4	566.2	690.2	802.5	849.3
62.5°	458.6	512.4	629.3	739.3	788.4
65°	400.1	456.2	563.8	676.1	729.9
67.5°	348.6	397.7	503.0	617.6	673.8
70°	290.1	336.9	439.8	556.8	615.3
72.5°	238.6	285.4	381.4	496.0	545.1
75°	189.5	231.6	322.9	428.1	477.3
77.5°	142.7	182.5	259.7	350.9	390.7
80°	100.6	135.7	198.9	252.7	266.7
82.5°	67.8	93.6	126.3	152.1	149.7
85°	37.4	51.5	65.5	77.2	72.5
87.5°	14.0	16.4	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)