

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: P220157

Luminaire Tested: **Z3-WG-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-5L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3784.7 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

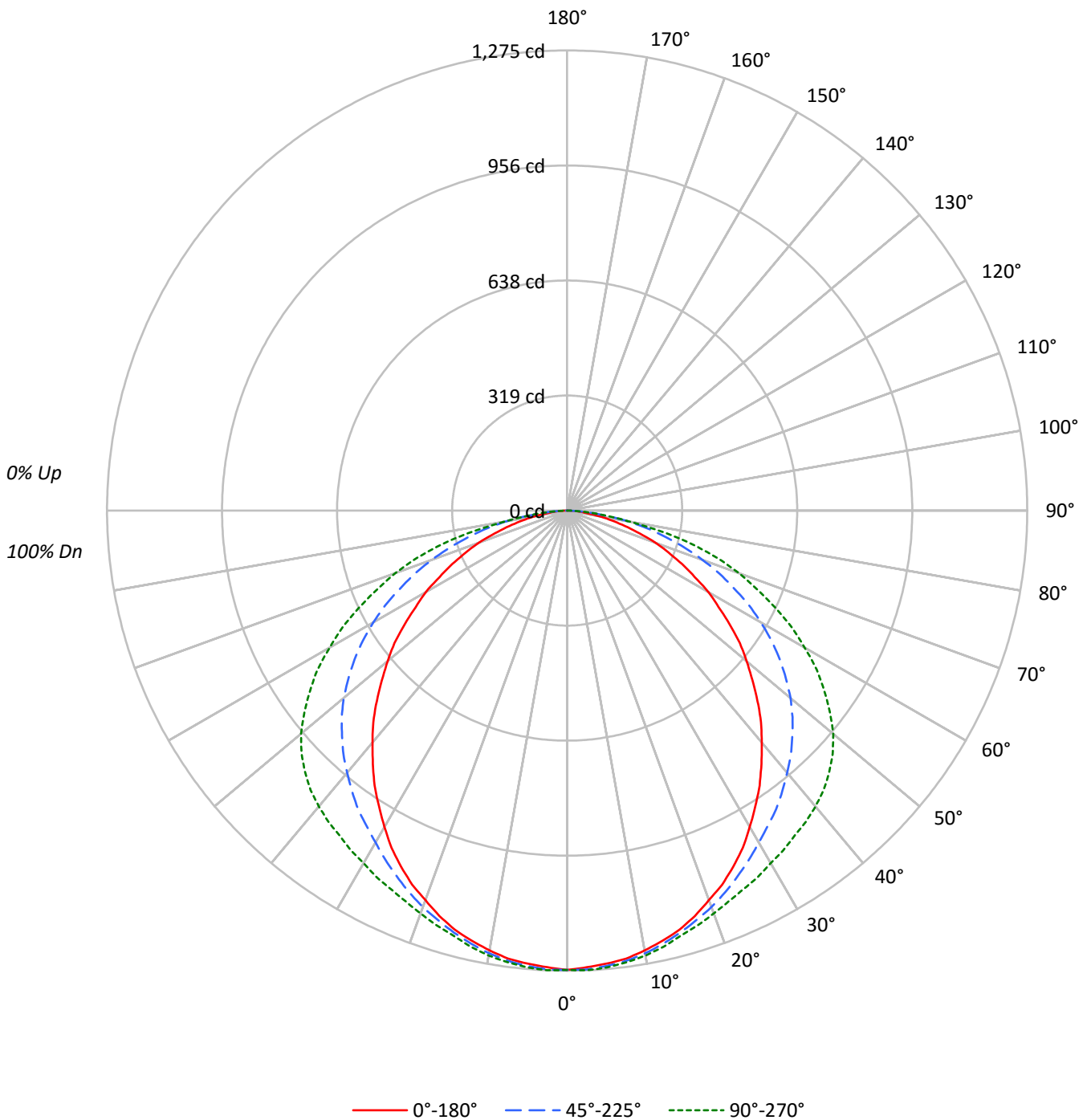
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	36
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	42	36	31	41	35	30	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°	3425	3425	3425
5°	3404	3421	3432
10°	3381	3404	3421
15°	3350	3373	3396
20°	3290	3349	3402
25°	3233	3319	3435
30°	3145	3300	3505
35°	3054	3319	3611
40°	2947	3331	3759
45°	2838	3357	3908
50°	2716	3382	4030
55°	2578	3373	4081
60°	2435	3336	4092
65°	2236	3249	4052
70°	2048	3137	3983
75°	1719	2942	3716
80°	1409	2625	2689
85°	1022	1785	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.2
10°-20°	341.7	9.0
20°-30°	517.0	13.7
30°-40°	633.4	16.7
40°-50°	681.7	18.0
50°-60°	638.9	16.9
60°-70°	497.8	13.2
70°-80°	287.9	7.6
80°-90°	66.1	1.7
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°	978.8	25.9
0°-40°	1612.3	42.6
0°-60°	2932.9	77.5
0°-90°	3784.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1260	1262	1266	1268	1270	120
15°	1202	1202	1211	1219	1219	338
25°	1089	1095	1118	1144	1157	501
35°	930	948	1010	1074	1099	581
45°	746	781	882	985	1027	575
55°	550	609	719	830	870	492
65°	351	411	510	603	636	349
75°	165	215	283	337	357	179
85°	33	50	58	60	58	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1266.4	1268.5	1272.6	1274.7	1274.7
5°	1260.2	1262.3	1266.4	1268.5	1270.5
7.5°	1252.0	1254.0	1258.2	1262.3	1262.3
10°	1237.5	1239.6	1245.8	1249.9	1252.0
12.5°	1221.0	1223.0	1229.2	1233.4	1237.5
15°	1202.4	1202.4	1210.6	1218.9	1218.9
17.5°	1177.6	1181.7	1190.0	1200.3	1204.4
20°	1148.7	1154.9	1169.3	1181.7	1187.9
22.5°	1121.8	1128.0	1144.5	1163.1	1171.4
25°	1088.7	1094.9	1117.7	1144.5	1156.9
27.5°	1053.6	1064.0	1090.8	1130.1	1144.5
30°	1012.3	1024.7	1061.9	1111.5	1128.0
32.5°	971.0	987.5	1035.0	1094.9	1115.6
35°	929.7	948.3	1010.2	1074.3	1099.1
37.5°	884.2	906.9	979.3	1055.7	1086.7
40°	838.8	863.6	948.3	1035.0	1070.2
42.5°	795.4	826.4	917.3	1010.2	1051.6
45°	745.8	780.9	882.2	985.4	1026.8
47.5°	696.2	739.6	847.0	954.5	997.8
50°	648.7	694.2	807.8	919.3	962.7
52.5°	603.3	650.8	764.4	876.0	917.3
55°	549.5	609.4	718.9	830.5	869.8
57.5°	497.9	557.8	671.4	776.8	820.2
60°	452.4	504.1	619.8	721.0	760.3
62.5°	398.7	454.5	568.1	663.2	702.4
65°	351.2	411.1	510.3	603.3	636.3
67.5°	303.7	355.3	456.6	537.1	568.1
70°	260.3	307.8	398.7	473.1	506.2
72.5°	210.7	260.3	340.9	404.9	435.9
75°	165.3	214.9	283.0	336.7	357.4
77.5°	126.0	169.4	227.3	264.4	268.6
80°	90.9	124.0	169.4	179.7	173.5
82.5°	57.8	84.7	107.4	109.5	109.5
85°	33.1	49.6	57.8	59.9	57.8
87.5°	14.5	18.6	18.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)